ANNEX I

SUMMARY OF PRODUCT CHARACTERISTICS
This medicinal product is subject to additional monitoring. This will allow quick identification of new safety information. Healthcare professionals are asked to report any suspected adverse reactions. See section 4.8 for how to report adverse reactions.

1. **NAME OF THE MEDICINAL PRODUCT**

AYVAKYT 25 mg film-coated tablets
AYVAKYT 50 mg film-coated tablets
AYVAKYT 100 mg film-coated tablets
AYVAKYT 200 mg film-coated tablets
AYVAKYT 300 mg film-coated tablets

2. **QUALITATIVE AND QUANTITATIVE COMPOSITION**

**AYVAKYT 25 mg film-coated tablets**
Each film-coated tablet contains 25 mg of avapritinib.

**AYVAKYT 50 mg film-coated tablets**
Each film-coated tablet contains 50 mg of avapritinib.

**AYVAKYT 100 mg film-coated tablets**
Each film-coated tablet contains 100 mg of avapritinib.

**AYVAKYT 200 mg film-coated tablets**
Each film-coated tablet contains 200 mg of avapritinib.

**AYVAKYT 300 mg film-coated tablets**
Each film-coated tablet contains 300 mg of avapritinib.

For the full list of excipients, see section 6.1.

3. **PHARMACEUTICAL FORM**

Film-coated tablet.

**AYVAKYT 25 mg film-coated tablets**
Round, white film-coated tablet of 5 mm diameter with debossed text. One side reads “BLU” and the other side reads “25”.

**AYVAKYT 50 mg film-coated tablets**
Round, white film-coated tablet of 6 mm diameter with debossed text. One side reads “BLU” and the other side reads “50”.

**AYVAKYT 100 mg film-coated tablets**
Round, white film-coated tablet of 9 mm diameter, printed with blue ink “BLU” on one side and “100” on the other.
AYVAKYT 200 mg film-coated tablets

Oval, white film-coated tablet of 16 mm in length and 8 mm in width, printed with blue ink “BLU” on one side and “200” on the other.

AYVAKYT 300 mg film-coated tablets

Oval, white film-coated tablet of 18 mm in length and 9 mm in width, printed with blue ink “BLU” on one side and “300” on the other.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Unresectable or metastatic gastrointestinal stromal tumour (GIST)

AYVAKYT is indicated as monotherapy for the treatment of adult patients with unresectable or metastatic gastrointestinal stromal tumours (GIST) harbouring the platelet-derived growth factor receptor alpha (PDGFRA) D842V mutation.

Advanced systemic mastocytosis (AdvSM)

AYVAKYT is indicated as monotherapy for the treatment of adult patients with aggressive systemic mastocytosis (ASM), systemic mastocytosis with an associated haematological neoplasm (SM-AHN) or mast cell leukaemia (MCL), after at least one systemic therapy.

4.2 Posology and method of administration

Therapy should be initiated by a physician experienced in the administration of anticancer therapy.

Posology for GIST

For GIST, the recommended starting dose of avapritinib is 300 mg orally once daily, on an empty stomach (see Method of administration). Treatment should be continued until disease progression or unacceptable toxicity occurs.

Patient selection for treatment of unresectable or metastatic GIST harbouring the PDGFRA D842V mutation should be based on a validated test method.

Concomitant use of avapritinib with strong or moderate CYP3A inhibitors should be avoided. If concomitant use with a moderate CYP3A inhibitor cannot be avoided, the starting dose of avapritinib must be reduced from 300 mg to 100 mg orally once daily (see section 4.5).

Posology for AdvSM

For AdvSM, the recommended starting dose of avapritinib is 200 mg orally once daily, on an empty stomach (see Method of administration). This once daily 200 mg dose is also the maximum recommended dose that must not be exceeded by patients with AdvSM. Treatment should be continued until disease progression or unacceptable toxicity occurs.

Treatment with avapritinib is not recommended in patients with platelet count < 50 x 10^9/L (see Table 2 and section 4.4).

Concomitant use of avapritinib with strong or moderate CYP3A inhibitors should be avoided. If concomitant use with a moderate CYP3A inhibitor cannot be avoided, the starting dose of avapritinib must be reduced from 200 mg to 50 mg orally once daily (see section 4.5).
Dose modifications for adverse reactions

Interruption of treatment with or without dose reduction may be considered to manage adverse reactions based on severity and clinical presentation.

The dose should be adjusted based on safety and tolerability.

The recommended dose reductions and modifications for adverse reactions are provided in Tables 1 and 2.

**Table 1. Recommended dose reductions for AYVAKYT for adverse reactions**

<table>
<thead>
<tr>
<th>Dose reduction</th>
<th>GIST (starting dose 300 mg)</th>
<th>AdvSM (starting dose 200 mg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>200 mg once daily</td>
<td>100 mg once daily</td>
</tr>
<tr>
<td>Second</td>
<td>100 mg once daily</td>
<td>50 mg once daily</td>
</tr>
<tr>
<td>Third</td>
<td>-</td>
<td>25 mg once daily</td>
</tr>
</tbody>
</table>

**Table 2. Recommended dose modifications for AYVAKYT for adverse reactions**

<table>
<thead>
<tr>
<th>Adverse reaction</th>
<th>Severity*</th>
<th>Dose modification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Patients with GIST or AdvSM</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intracranial haemorrhage</td>
<td>All Grades</td>
<td>Permanently discontinue AYVAKYT.</td>
</tr>
<tr>
<td>Cognitive effects**</td>
<td>Grade 1</td>
<td>Continue at the same dose, reduce dose or interrupt until improvement to baseline or resolution. Resume at the same dose or at a reduced dose.</td>
</tr>
<tr>
<td></td>
<td>Grade 2 or Grade 3</td>
<td>Interrupt therapy until improved to baseline, Grade 1, or resolution. Resume at the same dose or at a reduced dose.</td>
</tr>
<tr>
<td></td>
<td>Grade 4</td>
<td>Permanently discontinue AYVAKYT.</td>
</tr>
<tr>
<td>Other (also see section 4.4 and section 4.8)</td>
<td>Grade 3 or Grade 4</td>
<td>Interrupt therapy until less than or equal to Grade 2. Resume at the same dose or at a reduced dose, if warranted.</td>
</tr>
<tr>
<td><strong>Patients with AdvSM</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thrombocytopenia (see section 4.4)</td>
<td>Less than 50 x 10⁹/L</td>
<td>Interrupt dosing until platelet count is ≥ 50 x 10⁹/L, then resume at reduced dose (see Table 1). If platelet count does not recover above 50 x 10⁹/L, consider platelet support.</td>
</tr>
</tbody>
</table>

* The severity of adverse reactions graded by the National Cancer Institute (NCI) Common Terminology Criteria for Adverse Events (CTCAE) version 4.03 and 5.0

** Adverse reactions with impact on Activities of Daily Living (ADLs) for Grade 2 or higher adverse reactions

Missed doses

If a dose of avapritinib is missed, the patient should make up for the missed dose unless the next scheduled dose is within 8 hours (see Method of administration). If the dose has not been taken at least 8 hours prior to the next dose, then that dose must be omitted and the patient should resume treatment with the next scheduled dose.

If vomiting occurs after taking a dose of avapritinib, the patient must not take an additional dose but continue with the next scheduled dose.
Special populations

Elderly
No dose adjustment is recommended for patients aged 65 years and above (see section 5.2).

Hepatic impairment
No dose adjustment is recommended for patients with mild hepatic impairment (total bilirubin within upper limit of normal [ULN] and aspartate aminotransferase (AST) > ULN or total bilirubin greater than 1 to 1.5 times ULN and any AST) and moderate hepatic impairment (total bilirubin >1.5 to 3.0 times ULN and any AST). Avapritinib has not been studied in subjects with severe (Child-Pugh class C) hepatic impairment and therefore its use in patients with severe hepatic impairment cannot be recommended (see section 5.2).

Renal impairment
No dose adjustment is recommended for patients with mild and moderate renal impairment [creatinine clearance (CLcr) 30-89 mL/min estimated by Cockcroft-Gault]. Avapritinib has not been studied in patients with severe renal impairment (CLcr 15-29 mL/min) or end-stage renal disease (CLcr <15 mL/min), therefore its use in patients with severe renal impairment or end-stage renal disease cannot be recommended (see section 5.2).

Paediatric population
The safety and efficacy of AYVAKYT in children aged 0 to 18 years have not yet been established. No data are available.

Method of administration

AYVAKYT is for oral use.

The tablets must be taken on an empty stomach at least 1 hour before or at least 2 hours after a meal (see section 5.2).

Patients must swallow the tablets whole with a glass of water.

4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

4.4 Special warnings and precautions for use

Haemorrhages

Avapritinib has been associated with an increased incidence of haemorrhagic adverse reactions, including serious and severe adverse reactions, like gastrointestinal haemorrhage and intracranial haemorrhage in patients with unresectable or metastatic GIST and AdvSM. Gastrointestinal haemorrhagic adverse reactions were the most commonly reported haemorrhagic adverse reactions during avapritinib treatment of unresectable or metastatic GIST patients, while hepatic and tumour haemorrhage also occurred (see section 4.8).

Routine surveillance of haemorrhagic adverse reactions must include physical examination. Complete blood counts, including platelets, and coagulation parameters must be monitored, particularly in patients with conditions predisposing to bleeding, and in those treated with anticoagulants (e.g. warfarin and phenprocoumon) or other concomitant medicinal products that increase the risk of bleeding.

Intracranial haemorrhages
Adverse reactions of intracranial haemorrhage occurred in patients who received avapritinib. Before initiating avapritinib the risk for intracranial haemorrhage should be carefully considered in patients with potential increased risk including those with thrombocytopenia, vascular aneurysm or a history of intracranial haemorrhage or cerebrovascular accident within the prior year.

Patients who experience clinically relevant neurological signs and symptoms (e.g. severe headache, vision problems, somnolence, and/or focal weakness) during treatment with avapritinib must interrupt dosing of avapritinib and inform their healthcare professional immediately. Brain imaging by magnetic resonance imaging (MRI) or computed tomography (CT) may be performed at the discretion of the physician based on severity and the clinical presentation.

For patients with observed intracranial haemorrhage during treatment with avapritinib, regardless of severity grade, avapritinib must be permanently discontinued (see section 4.2).

**Unresectable or metastatic GIST**
Serious adverse reactions of intracranial haemorrhage were reported in patients with unresectable or metastatic GIST receiving avapritinib (see section 4.8). The exact mechanism is unknown.

There is no clinical study experience using avapritinib in patients with brain metastases.

**Advanced systemic mastocytosis**
Serious adverse reactions of intracranial haemorrhage were reported in patients with AdvSM receiving avapritinib (see section 4.8). The exact mechanism is unknown. The incidence of intracranial haemorrhage was higher in patients with platelet counts <50 x 10⁹/L and in patients with a starting dose of ≥300 mg.

Considering the above, a platelet count must be performed prior to initiating therapy. Avapritinib is not recommended in patients with platelet counts <50 x 10⁹/L. Following treatment initiation, platelet counts must be performed every 2 weeks for the first 8 weeks regardless of baseline platelet count. After 8 weeks of treatment, monitor platelet counts every 2 weeks (or more frequently as clinically indicated) if values are less than 75 x 10⁹/L, every 4 weeks if values are between 75 and 100 x 10⁹/L, and as clinically indicated if values are greater than 100 x 10⁹/L.

Manage platelet counts of <50 x 10⁹/L by temporarily interrupting avapritinib. Platelet support may be necessary, and the recommended dose modification in Table 2 must be followed (see section 4.2). Thrombocytopenia was generally reversible by reducing or interrupting avapritinib in clinical studies. The maximum dose for patients with AdvSM must not exceed 200 mg once daily.

**Cognitive effects**

Cognitive effects, such as memory impairment, cognitive disorder, confusional state, and encephalopathy, can occur in patients receiving avapritinib (see section 4.8). The mechanism of the cognitive effects is not known.

It is recommended that patients are clinically monitored for signs and symptoms of cognitive events such as new or increased forgetfulness, confusion, and/or difficulty with cognitive functioning. Patients must notify their healthcare professional immediately if they experience new or worsening cognitive symptoms.

For patients with observed cognitive effects related to treatment with avapritinib, the recommended dose modification in Table 2 must be followed (see section 4.2). In clinical studies, dose reductions or interruptions improved Grade ≥2 cognitive effects compared to no action.

**Fluid retention**

Occurrences of fluid retention, including severe cases of localised oedema (facial, periorbital, peripheral oedema and/or pleural effusion) or generalised oedemas, have been reported with a
frequency category of at least common in patients with unresectable or metastatic GIST taking avapritinib. Other localised oedemas (laryngeal oedema and/or pericardial effusion) have been reported uncommonly (see section 4.8).

In patients with AdvSM, localised (facial, periorbital, peripheral, pulmonary oedema, pericardial and/or pleural effusion) or generalised oedema, and ascites have been observed with a frequency category of at least common (see section 4.8). Other localised oedemas (laryngeal oedema) have been reported uncommonly.

Therefore, it is recommended that patients be evaluated for these adverse reactions including regular assessment of weight and respiratory symptoms. An unexpected rapid weight gain or respiratory symptoms indicating fluid retention must be carefully investigated and appropriate supportive care and therapeutic measures, such as diuretics, should be undertaken. For patients presenting with ascites, it is recommended to evaluate the aetiology of ascites.

**QT interval prolongation**

Prolongation of QT interval has been observed in patients with unresectable or metastatic GIST and AdvSM treated with avapritinib in clinical studies. QT interval prolongation may induce an increased risk of ventricular arrhythmias, including Torsade de pointes.

Avapritinib should be used with caution in patients with known QT interval prolongation or at risk of QT interval prolongation (e.g. due to concomitant medicinal products, pre-existing cardiac disease and/or electrolyte disturbances). Concomitant administration with strong or moderate CYP3A4 inhibitors should be avoided due to the increased risk of adverse reactions, including QT prolongation and related arrhythmias (see section 4.5). If concomitant use of moderate CYP3A4 inhibitors cannot be avoided, see section 4.2 for dose modification instructions.

Interval assessments of QT by electrocardiogram (ECG) should be considered if avapritinib is taken concurrently with medicinal products that can prolong QT interval.

**Gastrointestinal disorders**

Diarrhoea, nausea and vomiting were the most commonly reported gastrointestinal adverse reactions in patients with unresectable or metastatic GIST and AdvSM (see section 4.8). Patients who present with diarrhoea, nausea and vomiting should be evaluated to exclude disease-related aetiologies. Supportive care for gastrointestinal adverse reactions requiring treatment may include medicinal products with antiemetic, antidiarrheal, or antacid properties.

The hydration status of patients experiencing gastrointestinal adverse reactions must be closely monitored and treated as per standard clinical practice.

**Laboratory tests**

Treatment with avapritinib in patients with unresectable or metastatic GIST and AdvSM is associated with anaemia, neutropenia and/or thrombocytopenia. Complete blood counts must be performed on a regular basis during the treatment with avapritinib. See also intracranial haemorrhages above in this section and in section 4.8.

Treatment with avapritinib is associated in patients with unresectable or metastatic GIST and AdvSM with elevations in bilirubin and liver transaminases (see section 4.8). Liver function (transaminases and bilirubin) should be monitored regularly in patients receiving avapritinib.

**CYP3A4 inhibitors and inducers**

Co-administration with strong or moderate CYP3A inhibitors should be avoided because it may increase the plasma concentration of avapritinib (see sections 4.2 and 4.5).
Co-administration with strong or moderate CYP3A inducers should be avoided because it may decrease the plasma concentrations of avapritinib (see section 4.5).

**Photosensitivity reaction**

Exposure to direct sunlight must be avoided or minimised due to the risk of phototoxicity associated with avapritinib. Patients must be instructed to use measures such as protective clothing and sunscreen with high sun protection factor (SPF).

**Sodium**

This medicinal product contains less than 1 mmol sodium (23 mg) per tablet, that is to say essentially “sodium-free”.

**4.5 Interaction with other medicinal products and other forms of interaction**

**Active substances that may have an effect on avapritinib**

**Strong and moderate CYP3A inhibitors**

Co-administration of avapritinib with a strong CYP3A inhibitor increased avapritinib plasma concentrations and may result in increased adverse reactions. Co-administration of itraconazole (200 mg twice daily on Day 1 followed by 200 mg once daily for 13 days) with a single 200 mg dose of avapritinib on Day 4 in healthy subjects increased avapritinib $C_{\text{max}}$ by 1.4-fold and $AUC_{0-\text{inf}}$ by 4.2-fold, relative to a 200 mg dose of avapritinib administered alone.

Concomitant use of avapritinib with strong or moderate CYP3A inhibitors (such as antifungals including ketoconazole, itraconazole, posaconazole, voriconazole; certain macrolides such as erythromycin, clarithromycin and telithromycin; active substances to treat human immunodeficiency virus infections/acquired immunodeficiency syndrome (HIV/AIDS) such as cobicistat, indinavir, lopinavir, nelfinavir, ritonavir and saquinavir; as well as conivaptan for hyponatremia and boceprevir to treat hepatitis) including grapefruit or grapefruit juice should be avoided. If concomitant use with a moderate CYP3A inhibitor cannot be avoided, the starting dose of avapritinib should be reduced from 300 mg to 100 mg orally once daily for patients with GIST, and from 200 mg to 50 mg orally once daily for patients with AdvSM (see section 4.2 and 4.4).

**Strong and moderate CYP3A inducers**

Co-administration of avapritinib with a strong CYP3A inducer decreased avapritinib plasma concentrations and may result in decreased efficacy of avapritinib. Co-administration of rifampicin (600 mg once daily for 18 days) with a single 400 mg dose of avapritinib on Day 9 in healthy subjects decreased avapritinib $C_{\text{max}}$ by 74% and $AUC_{0-\text{inf}}$ by 92%, relative to a 400 mg dose of avapritinib administered alone.

Co-administration of avapritinib with strong and moderate CYP3A inducers (e.g. dexamethasone, phenytoin, carbamazepine, rifampicin, phenobarbital, fosphenytoin, primidone, bosentan, efavirenz, etravirine, modafinil, dabrafenib, nafcillin or *Hypericum perforatum*, also known as St. John’s wort) should be avoided.

**Effect of avapritinib on other active substances**

*In vitro* studies demonstrated that avapritinib is a direct inhibitor of CYP3A and a time-dependent inhibitor of CYP3A. Therefore, avapritinib may have the potential to increase plasma concentrations of co-administered medicinal products that are substrates of CYP3A.

*In vitro* studies indicated that avapritinib is an inducer of CYP3A. Therefore, avapritinib may have the potential to decrease plasma concentrations of co-administered medicinal products that are substrates of CYP3A.
Caution must be exercised with co-administration of avapritinib with narrow therapeutic index CYP3A substrates as their plasma concentrations may be altered.

Avapritinib is an inhibitor of P-gp, BCRP, MATE1, MATE2-K, and BSEP \textit{in vitro}. Therefore, avapritinib has the potential to alter concentrations of co-administered substrates of these transporters.

4.6 Fertility, pregnancy and lactation

Women of childbearing potential/Contraception in males and females

Women of childbearing potential must be informed that avapritinib may cause foetal harm (see section 5.3).

The pregnancy status of women of reproductive potential must be verified prior to initiating AYVAKYT treatment.

Women of childbearing potential and males with female partners of childbearing potential must use effective contraception during treatment and for 1 month after the last dose of AYVAKYT.

Patients must be advised to contact their healthcare professional immediately if they become pregnant, or if pregnancy is suspected, while taking AYVAKYT.

Pregnancy

There are no data from the use of avapritinib in pregnant women. Studies in animals have shown reproductive toxicity (see section 5.3).

AYVAKYT is not recommended during pregnancy and in women of childbearing potential not using contraception.

If AYVAKYT is used during pregnancy or if the patient becomes pregnant while taking AYVAKYT, the patient must be advised of the potential risk to the foetus.

Breast-feeding

It is unknown whether avapritinib/metabolites are excreted in human milk.

A risk to the newborns/infants cannot be excluded.

Breast-feeding must be discontinued during treatment with AYVAKYT and for 2 weeks following the final dose.

Fertility

There are no data on the effect of AYVAKYT on human fertility. No relevant effects on fertility were observed in a rat fertility study (see section 5.3).

4.7 Effects on ability to drive and use machines

AYVAKYT may cause adverse reactions such as cognitive effects that may influence the ability to drive and use machines.

Patients should be made aware of the potential for adverse reactions that affect their ability to concentrate and react. Patients who experience these adverse effects must take special care when driving a car or operating machinery.
4.8 Undesirable effects

Summary of the safety profile

The safety database includes a total of 585 patients with GIST (all doses), of which 550 patients received avapritinib at a starting dose of 300 mg or 400 mg, as well as 193 patients enrolled in studies for AdvSM (all doses), of which 126 patients received avapritinib at a starting dose of 200 mg, see section 5.1.

Unresectable or metastatic GIST

The most common adverse reactions of any grade during treatment with avapritinib at a starting dose of 300 mg or 400 mg were nausea (45%), fatigue (40%), anaemia (39%), periorbital oedema (33%), face oedema (27%), hyperbilirubinaemia (28%), diarrhoea (26%), vomiting (24%), oedema peripheral (23%), lacrimation increased (22%), decreased appetite (21%) and memory impairment (20%).

Serious adverse reactions occurred in 23% of patients receiving avapritinib. The most common serious adverse reactions during treatment with avapritinib were anaemia (6%), and pleural effusion (1%).

The most common adverse reactions leading to permanent treatment discontinuation were fatigue, encephalopathy and intracranial haemorrhage (< 1% each). Adverse reactions leading to a dose reduction included anaemia, fatigue, neutrophil count decreased, blood bilirubin increased, memory impairment, cognitive disorder, periorbital oedema, nausea and face oedema.

Advanced systemic mastocytosis

The most common adverse reactions of any grade during treatment with avapritinib at a starting dose of 200 mg were periorbital oedema (38%), thrombocytopenia (37%), oedema peripheral (33%), and anaemia (22%).

Serious adverse reactions occurred in 12% of patients receiving avapritinib. The most common serious adverse reactions during treatment with avapritinib were subdural haematoma (2%), anaemia (2%), and haemorrhage (2%).

In AdvSM patients treated at 200 mg, 7.1% had adverse reactions leading to permanent treatment discontinuation. In two patients (1.6%), subdural haematoma occurred. Cognitive disorder, depressed mood, diarrhoea, disturbance in attention, haemoglobin decreased, hair colour changes, libido decreased, nausea, neutropenia, premature menopause and thrombocytopenia occurred in one patient (0.8% each). Adverse reactions leading to a dose reduction included thrombocytopenia, neutropenia, periorbital oedema, cognitive disorder, oedema peripheral, platelet count decreased, neutrophil count decreased, anaemia, asthenia, fatigue, arthralgia, blood alkaline phosphatase increased, blood bilirubin increased, and white blood cell count decreased.

Tabulated list of adverse reactions

Adverse reactions that were reported in clinical studies in ≥1% of patients with GIST are listed below (Table 3) except for adverse reactions mentioned in the section 4.4 which are included regardless of frequency, according to the MedDRA System Organ Class and frequency. For patients with AdvSM, adverse reactions that were reported in clinical studies in ≥3% of patients are listed below (Table 4).

Frequencies are defined using the following convention: very common (≥1/10); common (≥1/100 to <1/10), uncommon (≥1/1,000 to <1/100), rare (≥1/10,000 to <1/1,000), very rare (<1/10,000).

Within each frequency grouping, adverse reactions are presented in order of decreasing seriousness.

Unresectable or metastatic GIST
<table>
<thead>
<tr>
<th>System Organ Class / frequency category</th>
<th>Adverse reactions</th>
<th>All grades %</th>
<th>Grades ≥3 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common</td>
<td>Conjunctivitis</td>
<td>2.0</td>
<td>-</td>
</tr>
<tr>
<td>Neoplasms benign, malignant and unspecified (including cysts and polyps)</td>
<td>Tumour haemorrhage</td>
<td>0.2</td>
<td>0.2</td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Very common</td>
<td>Anaemia</td>
<td>39.6</td>
<td>20.4</td>
</tr>
<tr>
<td></td>
<td>White blood cell count decreased</td>
<td>14.0</td>
<td>3.1</td>
</tr>
<tr>
<td></td>
<td>Neutrophil count decreased</td>
<td>15.8</td>
<td>8.9</td>
</tr>
<tr>
<td>Common</td>
<td>Thrombocytopenia</td>
<td>8.4</td>
<td>0.9</td>
</tr>
<tr>
<td></td>
<td>Lymphocyte count decreased</td>
<td>4.7</td>
<td>2.2</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Very common</td>
<td>Decreased appetite</td>
<td>21.1</td>
<td>0.5</td>
</tr>
<tr>
<td>Common</td>
<td>Hypophosphataemia</td>
<td>8.9</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td>Hypokalaemia</td>
<td>6.0</td>
<td>0.9</td>
</tr>
<tr>
<td></td>
<td>Hypomagnesaemia</td>
<td>3.8</td>
<td>0.4</td>
</tr>
<tr>
<td></td>
<td>Hyponatraemia</td>
<td>1.3</td>
<td>0.7</td>
</tr>
<tr>
<td></td>
<td>Dehydration</td>
<td>1.8</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>Hypoalbuminaemia</td>
<td>2.4</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Hypocalcaemia</td>
<td>2.2</td>
<td>0.4</td>
</tr>
<tr>
<td>Psychiatric disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common</td>
<td>Confusional state</td>
<td>4.7</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>Depression</td>
<td>4.2</td>
<td>0.4</td>
</tr>
<tr>
<td></td>
<td>Anxiety</td>
<td>1.8</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Insomnia</td>
<td>3.8</td>
<td>-</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Very common</td>
<td>Memory impairment</td>
<td>22.7</td>
<td>0.9</td>
</tr>
<tr>
<td></td>
<td>Cognitive disorder</td>
<td>11.8</td>
<td>0.9</td>
</tr>
<tr>
<td></td>
<td>Dizziness</td>
<td>10.5</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td>Taste effect</td>
<td>12.7</td>
<td>-</td>
</tr>
<tr>
<td>Common</td>
<td>Intracranial haemorrhage(^1)</td>
<td>1.6</td>
<td>1.1</td>
</tr>
<tr>
<td></td>
<td>Mental impairment(^2)</td>
<td>5.6</td>
<td>0.7</td>
</tr>
<tr>
<td></td>
<td>Neuropathy peripheral</td>
<td>8.5</td>
<td>0.4</td>
</tr>
<tr>
<td></td>
<td>Somnolence</td>
<td>1.8</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Aphasia</td>
<td>1.8</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Hypokinesia</td>
<td>1.3</td>
<td>0.2</td>
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<tr>
<td></td>
<td>Headache</td>
<td>8.0</td>
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<td></td>
<td>Balance disorder</td>
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<tr>
<td></td>
<td>Speech disorder</td>
<td>4.5</td>
<td>-</td>
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<tr>
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<td>Tremor</td>
<td>2.2</td>
<td>0.2</td>
</tr>
<tr>
<td>Uncommon</td>
<td>Encephalopathy</td>
<td>0.9</td>
<td>0.5</td>
</tr>
<tr>
<td>Eye disorders</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Very common</td>
<td>Lacrimation increased</td>
<td>22.2</td>
<td>-</td>
</tr>
<tr>
<td>Common</td>
<td>Ocular haemorrhage(^3)</td>
<td>1.1</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Vision blurred</td>
<td>2.9</td>
<td>-</td>
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<tr>
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<td>Conjunctival haemorrhage</td>
<td>2.4</td>
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</tr>
<tr>
<td></td>
<td>Photophobia</td>
<td>1.6</td>
<td>-</td>
</tr>
<tr>
<td>Ear and labyrinth disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common</td>
<td>Vertigo</td>
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<td>-</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Uncommon</td>
<td>Pericardial effusion</td>
<td>0.9</td>
<td>0.2</td>
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<tr>
<td>System Organ Class / frequency category</td>
<td>Adverse reactions</td>
<td>All grades (%)</td>
<td>Grades ≥3 (%)</td>
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<td>----------------------------------------</td>
<td>------------------</td>
<td>----------------</td>
<td>----------------</td>
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<td><strong>Vascular disorders</strong></td>
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<td>Hypertension</td>
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<td>Common</td>
<td>Pleural effusion</td>
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<td>0.9</td>
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<td>Dyspnoea</td>
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<td>0.7</td>
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<td>Nasal congestion</td>
<td>1.5</td>
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<td></td>
<td>Cough</td>
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<td>-</td>
</tr>
<tr>
<td><strong>Gastrointestinal disorders</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Very common</td>
<td>Abdominal pain</td>
<td>10.9</td>
<td>1.1</td>
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<td>Vomiting</td>
<td>24.2</td>
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<td>Diarrhoea</td>
<td>26.4</td>
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<td>Nausea</td>
<td>45.1</td>
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<td></td>
<td>Dryness</td>
<td>10.9</td>
<td>0.2</td>
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<td></td>
<td>Gastroesophageal reflux disease</td>
<td>12.9</td>
<td>0.5</td>
</tr>
<tr>
<td>Common</td>
<td>Gastrointestinal haemorrhage$^3$</td>
<td>2.2</td>
<td>1.6</td>
</tr>
<tr>
<td></td>
<td>Ascites</td>
<td>7.5</td>
<td>1.3</td>
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<td></td>
<td>Constipation</td>
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<td>Dysphagia</td>
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<td>Stomatitis</td>
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<td></td>
<td>Flatulence</td>
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<td>-</td>
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<td></td>
<td>Salivary hypersecretion</td>
<td>1.5</td>
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</tr>
<tr>
<td><strong>Hepatobiliary disorders</strong></td>
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<td></td>
</tr>
<tr>
<td>Very common</td>
<td>Hyperbilirubinaemia</td>
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<td>5.8</td>
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<tr>
<td>Uncommon</td>
<td>Hepatic haemorrhage</td>
<td>0.2</td>
<td>0.2</td>
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<tr>
<td><strong>Skin and subcutaneous tissue disorders</strong></td>
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<tr>
<td>Very common</td>
<td>Hair colour changes</td>
<td>15.3</td>
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<tr>
<td></td>
<td>Rash</td>
<td>12.7</td>
<td>1.6</td>
</tr>
<tr>
<td>Common</td>
<td>Palmar-plantar erythrodysaesthesia syndrome</td>
<td>1.3</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Photosensitivity reaction</td>
<td>1.1</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin hypopigmentation</td>
<td>1.1</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Pruritus</td>
<td>2.9</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Alopecia</td>
<td>9.6</td>
<td>-</td>
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<tr>
<td><strong>Musculoskeletal and connective tissue disorders</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common</td>
<td>Myalgia</td>
<td>2.0</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Arthralgia</td>
<td>1.8</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Back pain</td>
<td>1.1</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Muscle spasms</td>
<td>1.6</td>
<td>-</td>
</tr>
<tr>
<td><strong>Renal and urinary disorders</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common</td>
<td>Acute kidney injury</td>
<td>2.0</td>
<td>0.9</td>
</tr>
<tr>
<td></td>
<td>Blood creatinine increased</td>
<td>4.4</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Haematuria</td>
<td>1.1</td>
<td>-</td>
</tr>
<tr>
<td><strong>General disorders and administration site conditions</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Very common</td>
<td>Oedema$^3$</td>
<td>70.2</td>
<td>4.7</td>
</tr>
<tr>
<td></td>
<td>Fatigue</td>
<td>39.6</td>
<td>5.3</td>
</tr>
<tr>
<td>Common</td>
<td>Asthenia</td>
<td>7.8</td>
<td>1.6</td>
</tr>
<tr>
<td></td>
<td>Pyrexia</td>
<td>1.8</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td>Malaise</td>
<td>2.5</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td>Feeling cold</td>
<td>2.9</td>
<td>-</td>
</tr>
<tr>
<td><strong>Investigations</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Very common</td>
<td>Transaminases increased</td>
<td>12.4</td>
<td>0.9</td>
</tr>
<tr>
<td>Common</td>
<td>Electrocardiogram QT prolonged</td>
<td>2.0</td>
<td>0.2</td>
</tr>
<tr>
<td></td>
<td>Blood creatine phosphokinase increased</td>
<td>3.3</td>
<td>0.4</td>
</tr>
</tbody>
</table>
### Advanced systemic mastocytosis

#### Table 4. Adverse reactions reported in clinical studies in patients with advanced systemic mastocytosis treated with avapritinib starting at 200 mg

<table>
<thead>
<tr>
<th>System Organ Class / frequency category</th>
<th>Adverse reactions</th>
<th>All grades %</th>
<th>Grades ≥3 %</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Blood and lymphatic system disorders</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Very common</td>
<td>Thrombocytopenia*</td>
<td>46.8</td>
<td>23.0</td>
</tr>
<tr>
<td></td>
<td>Anaemia</td>
<td>23.0</td>
<td>11.9</td>
</tr>
<tr>
<td></td>
<td>Neutropenia</td>
<td>21.4</td>
<td>19.0</td>
</tr>
<tr>
<td>Common</td>
<td>Leukopenia*</td>
<td>8.7</td>
<td>2.4</td>
</tr>
<tr>
<td><strong>Psychiatric disorders</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common</td>
<td>Confusional state</td>
<td>1.6</td>
<td>-</td>
</tr>
<tr>
<td><strong>Nervous system disorders</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Very common</td>
<td>Taste effect*</td>
<td>15.9</td>
<td>0.8</td>
</tr>
<tr>
<td></td>
<td>Cognitive disorder</td>
<td>11.9</td>
<td>1.6</td>
</tr>
<tr>
<td>Common</td>
<td>Headache</td>
<td>7.9</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Memory impairment*</td>
<td>5.6</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Dizziness</td>
<td>5.6</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Neuropathy peripheral</td>
<td>4.8</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Intracranial haemorrhage</td>
<td>2.4</td>
<td>0.8</td>
</tr>
<tr>
<td><strong>Eye disorders</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common</td>
<td>Lacrimation increased</td>
<td>6.3</td>
<td>-</td>
</tr>
<tr>
<td><strong>Cardiac disorders</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Uncommon</td>
<td>Pericardial effusion</td>
<td>0.8</td>
<td>-</td>
</tr>
<tr>
<td><strong>Respiratory, thoracic and mediastinal disorders</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common</td>
<td>Epistaxis</td>
<td>5.6</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Pleural effusion</td>
<td>2.4</td>
<td>-</td>
</tr>
<tr>
<td><strong>Gastrointestinal disorders</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Very common</td>
<td>Diarrhoea</td>
<td>14.3</td>
<td>1.6</td>
</tr>
<tr>
<td></td>
<td>Nausea</td>
<td>12.7</td>
<td>-</td>
</tr>
<tr>
<td>Common</td>
<td>Vomiting*</td>
<td>8.7</td>
<td>0.8</td>
</tr>
<tr>
<td></td>
<td>Gastroesophageal reflux disease*</td>
<td>4.8</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Ascites*</td>
<td>4.0</td>
<td>0.8</td>
</tr>
</tbody>
</table>

1 Intracranial haemorrhage (including Cerebral haemorrhage, Haemorrhage intracranial, Subdural haematoma, Cerebral haematoma)
2 Mental impairment (including Disturbance in attention, Mental impairment, Mental status changes, Dementia)
3 Ocular haemorrhage (including Eye haemorrhage, Retinal haemorrhage, Vitreous haemorrhage)
4 Gastrointestinal haemorrhage (including Gastric haemorrhage, Gastrointestinal haemorrhage, Upper gastrointestinal haemorrhage, Rectal haemorrhage, Melaena)
5 Oedema (including Periorbital oedema, Oedema peripheral, Face oedema, Eyelid oedema, Fluid retention, Generalised oedema, Orbital oedema, Eye oedema, Oedema, Peripheral swelling, Swelling face, Eye swelling, Conjunctival oedema, Laryngeal oedema, Localised oedema, Lip swelling)

*: no adverse reactions reported with Grades ≥3
Intracranial haemorrhage occurred in 10 (1.7%) of the 585 patients with GIST (all doses) and in 9 (1.6%) of the 550 patients with GIST who received avapritinib at a starting dose of 300 mg or 400 mg once daily (see section 4.4).

Events of intracranial haemorrhage (all grades) occurred in a range from 8 weeks to 84 weeks after initiating avapritinib, with a median time to onset of 22 weeks. The median time to improvement and resolution was 25 weeks for intracranial haemorrhage of Grade ≥2.

Description of selected adverse reactions

Intracranial haemorrhage
Advanced systemic mastocytosis

Intracranial haemorrhage occurred in a total (regardless of causality) of 4 (3.2%) of the 126 patients with AdvSM who received avapritinib at a starting dose of 200 mg once daily regardless of platelet count prior to initiation of therapy. In 3 of these 4 patients, the event was assessed as related to avapritinib (2.4%). The risk of intracranial haemorrhagic events is higher in patients with platelet counts <50 x 10^9/L. Intracranial haemorrhage occurred in a total (regardless of causality) of 3 (2.5%) of the 121 patients with AdvSM who received a starting dose of 200 mg once daily and had a platelet count ≥50 x 10^9/L prior to initiation of therapy (see section 4.4). In 2 of the 3 patients, the event was assessed as related to avapritinib (1.7%). Of 126 patients treated with the recommended starting dose of 200 mg once daily, 5 had platelet counts <50 x 10^9/L prior to initiation of therapy, of which one patient experienced an intracranial haemorrhage.

Events of intracranial haemorrhage (all grades) occurred in a range from 12.0 weeks to 15.0 weeks after initiating avapritinib, with a median time to onset of 12.1 weeks.

In clinical studies with avapritinib, the incidence of intracranial haemorrhage was higher in patients who received a starting dose of ≥300 mg once daily, as compared to patients who received the recommended starting dose of 200 mg once daily. Of the 50 patients who received a starting dose of ≥300 mg once daily, 8 (16.0%) experienced an event (regardless of causality) of intracranial bleeding regardless of platelet count prior to initiation of therapy. In 6 of the 8 patients, the event was assessed as related to avapritinib (12.0%). Of these 50 patients, 7 had platelet counts <50 x 10^9/L prior to initiation of therapy, of which 4 patients experienced an intracranial haemorrhage, that were assessed as related to avapritinib in 3 of 4 cases. Four of 43 patients with platelet counts ≥50 x 10^9/L prior to initiation of therapy experienced an intracranial haemorrhage, which were assessed as related to avapritinib in 3 of 4 cases.

Fatal events of intracranial haemorrhage have occurred in less than 1% of patients with AdvSM (all doses).

The maximum dose for patients with AdvSM must not exceed 200 mg once daily.

Cognitive effects

A broad spectrum of cognitive effects that are generally reversible (with intervention) can occur in patients receiving avapritinib. Cognitive effects were managed with dose interruption and/or reduction, and 2.7% led to permanent discontinuation of avapritinib treatment.

Unresectable or metastatic GIST

Cognitive effects occurred in 194 (33%) of the 585 patients with GIST (all doses) and in 182 (33%) of the 550 patients with GIST who received avapritinib at starting doses of either 300 or 400 mg once daily (see section 4.4). In the patients who had an event (any grade), the median time to onset was 8 weeks.

Most cognitive effects were Grade 1, with Grade ≥2 occurring in 11% of 550 patients. Among patients who experienced a cognitive effect of Grade ≥2 (impacting activities of daily living) the median time to improvement was 15 weeks.

Memory impairment occurred in 20% of patients, <1% of these events were Grade 3. Cognitive disorder occurred in 12% of patients; <1% of these events were Grade 3. Confusional state occurred in 5% of patients; <1% of these events were Grade 3. Encephalopathy occurred in <1% of patients; <1% of these events were Grade 3. Serious adverse reactions of cognitive effects were reported for 9 of 585 (1.5%) of the GIST patients (all doses), of which 7 of the 550 (1.3%) patients were observed in the GIST group receiving a starting dose of either 300 or 400 mg once daily.

Overall, 1.3% of patients required permanent discontinuation of avapritinib for a cognitive effect.
Cognitive effects occurred in 37% of the patients aged ≥65 years receiving a starting dose of either 300 or 400 mg once daily.

**Advanced systemic mastocytosis**

Cognitive effects occurred in 31 (26%) of the 193 patients with AdvSM (all doses) and in 23 (18%) of the 126 patients with AdvSM who received avapritinib at a starting dose of 200 mg (see section 4.4). In the patients with AdvSM treated at a starting dose of 200 mg who had an event (any grade), the median time to onset was 12 weeks (range: 0.1 weeks to 108.1 weeks).

Most cognitive effects were Grade 1, with Grade ≥2 occurring in 7% of the patients treated at a starting dose of 200 mg. Among patients who experienced a cognitive effect of Grade ≥2 (impacting activities of daily living) the median time to improvement was 6 weeks.

For patients with AdvSM treated at a starting dose of 200 mg, cognitive disorder occurred in 12% of patients, memory impairment occurred in 6% of patients and confusional state occurred in 2% of patients. None of these events were Grade 4.

Serious adverse reactions of cognitive effects were reported for 1 of 193 (<1%) AdvSM patients (all doses), none were observed in the AdvSM group receiving a starting dose of 200 mg once daily.

Overall, 1.6% of AdvSM patients (all doses) required permanent discontinuation of avapritinib for a cognitive adverse reaction, 8% required a dose interruption, and 9% required dose reduction.

Cognitive effects occurred in 20% of the patients aged ≥65 years receiving a starting dose of 200 mg once daily.

**Elderly**

**Unresectable or metastatic GIST**

In NAVIGATOR and VOYAGER (N=550) (see section 5.1), 39% of patients were 65 years of age and older, and 9% were 75 years of age and older. Compared with younger patients (<65), more patients ≥65 years old had reported adverse reactions that led to dose reductions (55% versus 45%) and dose discontinuation (18% versus 4%). The types of adverse reactions reported were similar regardless of age. Older patients reported more Grade 3 or higher adverse reactions compared to younger patients (63% versus 50%).

**Advanced systemic mastocytosis**

In patients treated at 200 mg in EXPLORER and PATHFINDER (N=126) (see section 5.1), 63% of patients were 65 years of age or older, and 21% were 75 years of age and older. Compared with younger patients (<65), more patients ≥65 years old reported adverse reactions that led to dose reductions (62% versus 73%). A similar fraction of patients reported adverse reactions that led to dose discontinuation (9% versus 6%). The types of adverse reactions reported were similar regardless of age. Older patients reported more Grade 3 or higher adverse reactions (63.3%) compared to younger patients (53.2%).

**Reporting of suspected adverse reactions**

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix V.

### 4.9 Overdose

**Symptoms**
No cases of overdose have been reported in clinical studies with avapritinib. The maximum dose of avapritinib studied clinically is 600 mg orally once daily. Adverse reactions observed at this dose were consistent with the safety profile at 300 mg or 400 mg once daily (see section 4.8).

Management

There is no known antidote for avapritinib overdose. In the event of suspected overdose, avapritinib should be interrupted and supportive care instituted. Based on the large volume of distribution of avapritinib and extensive protein binding, dialysis is unlikely to result in significant removal of avapritinib.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: antineoplastic agents, protein kinase inhibitor, ATC code: L01EX18.

Mechanism of action

Avapritinib is a Type 1 kinase inhibitor that has demonstrated biochemical in vitro activity on the PDGFRA D842V and KIT D816V mutants associated with resistance to imatinib, sunitinib and regorafenib with half maximal inhibitory concentrations (IC50) of 0.24 nM and 0.27 nM, respectively, and greater potency against clinically relevant KIT exon 11, KIT exon 11/17 and KIT exon 17 mutants than against the KIT wild-type enzyme.

In cellular assays, avapritinib inhibited the autophosphorylation of KIT D816V and PDGFRA D842V with IC50 of 4 nM and 30 nM, respectively. In cellular assays, avapritinib inhibited the proliferation in KIT mutant cell lines, including a murine mastocytoma cell line and a human mast cell leukaemia cell line. Avapritinib also showed growth inhibitory activity in a xenograft model of murine mastocytoma with KIT exon 17 mutation.

Pharmacodynamic effects

Potential to prolong the QT interval

The ability of avapritinib to prolong the QT interval was assessed in 27 patients administered avapritinib at doses of 300/400 mg once daily in an open-label, single-arm study in patients with GIST. The estimated mean change from baseline in QTcF was 6.55 ms (90% confidence interval [CI]: 1.80 to 11.29) at the observed steady state geometric mean Cmax of 899 ng/mL. No effect on heart rate or cardiac conduction (PR, QRS, and RR intervals) was observed.

Clinical efficacy and safety

Clinical studies in unresectable or metastatic GIST

The efficacy and safety of avapritinib was assessed in a multi-centre, single-arm, open-label clinical study (BLU-285-1101; NAVIGATOR). Patients with a confirmed diagnosis of GIST and an Eastern Clinical Oncology Group (ECOG) performance status (PS) of 0 to 2 (58% and 3% of patients had ECOG status 1 and 2, respectively) were included in the study. A total of 217 patients received a starting dose of either 300 mg or 400 mg once daily.

Efficacy was assessed on the basis of overall response rate (ORR) according to Response Evaluation Criteria In Solid Tumours (RECIST) v1.1 modified for patients with unresectable or metastatic GIST (mRECIST v1.1) and duration of response (DOR), as evaluated by a Blinded Independent Central Review (BICR).

In addition, a total of 239 patients have received treatment with avapritinib at the relevant starting dose in an ongoing open-label, randomised phase 3 study (BLU-285-1303; VOYAGER) in which PFS is
the primary endpoint. Ninety six additional patients received avapritinib in this study after disease progression on the regorafenib control treatment (crossover). As of the last data cut-off date, 9th March 2020, the median treatment duration was 8.9 months in patients with GIST harbouring the PDGFRA D842V mutation included in this study, which provides some preliminary comparative safety data.

**PDGFRA D842V mutation**

A total of 38 patients with unresectable or metastatic GIST harbouring the PDGFRA D842V mutation were enrolled and treated with avapritinib at a starting dose of either 300 mg or 400 mg once daily. In the NAVIGATOR study 71% of patients with unresectable or metastatic GIST harbouring the PDGFRA D842V mutation had dose reductions to 200 mg or 100 mg once daily during the course of therapy. Median time to dose reduction was 12 weeks. The GIST patients were required to have unresectable or metastatic disease and have a documented PDGFRA D842V mutation determined by a locally available diagnostic test. At 12 months, 27 patients were still on avapritinib with 22% receiving 300 mg once daily, 37% receiving 200 mg once daily and 41% receiving 100 mg once daily.

Baseline demographics and disease characteristics were median age of 64 years (range: 29 to 90 years), 66% male, 66% white, ECOG PS of 0-2 (61% and 5% of patients had ECOG status 1 and 2, respectively), 97% had metastatic disease, largest target lesion was >5 cm for 58%, 90% had prior surgical resection, and median number of prior lines of tyrosine kinase inhibitors of 1 (range: 0 to 5).

Efficacy results from study BLU-285-1101 (NAVIGATOR) for GIST patients harbouring the PDGFRA D842V mutation are summarised in Table 5. The data represent a median duration of follow-up of 26 months across all patients with PDGFRA D842V mutations who were alive, the median OS had not been reached with 74% of patients alive. The median progression free survival was 24 months. Radiographic tumour reductions were observed in 98% of patients.

**Table 5. Efficacy results for PDGFRA D842V-Mutation in GIST patients (NAVIGATOR study)**

<table>
<thead>
<tr>
<th>Efficacy Parameter</th>
<th>N = 38</th>
</tr>
</thead>
<tbody>
<tr>
<td>mRECIST 1.1 ORR¹, (%) (95% CI)</td>
<td>95 (82.3, 99.4)</td>
</tr>
<tr>
<td>CR</td>
<td>13</td>
</tr>
<tr>
<td>PR</td>
<td>82</td>
</tr>
<tr>
<td>DOR (months), median (CI)</td>
<td>22.1 (14.1, NE)</td>
</tr>
</tbody>
</table>

Abbreviations: CI=confidence interval; CR=complete response; DOR=duration of response; mRECIST 1.1=Response Evaluation Criteria In Solid Tumours v1.1 modified for patients with unresectable or metastatic GIST; N=number of patients; NE=not estimable; ORR=overall response rate; PR=partial response

¹ ORR is defined as patients who achieved a CR or PR (CR + PR)

In patients with PDGFRA D842V-mutant GIST treated at starting doses of 300 or 400 mg once daily the ORR based on central radiology review by mRECIST v1.1 criteria was 95%.

Based on preliminary results from the ongoing phase 3 study BLU-285-1303 (VOYAGER) in a subset of 13 patients with PDGFRA D842V mutations, partial response was reported in 3 out of 7 patients in the avapritinib group (43% ORR) and none of the 6 patients in the regorafenib group (0% ORR). The median PFS there was not estimable in patients with PDGFRA D842V mutations randomized to avapritinib (95% CI: 9.7, NE) compared to 4.5 months in patients receiving regorafenib (95% CI: 1.7, NE).

**Clinical studies in advanced systemic mastocytosis**

The efficacy and safety of avapritinib was assessed in a multi-center, single-arm, open-label Phase 2 study BLU-285-2202 (PATHFINDER). The eligibility criteria were based on an ECOG PS of 0 to 3. Patients with high and very high risk AHNS such as AML or high risk MDS, and Philadelphia
chromosome-positive malignancies were excluded. Palliative and supportive care medications were allowed. The response-evaluable population according to modified IWG-MRT-ECNM criteria as adjudicated by a central committee includes patients with a diagnosis of AdvSM, who had received at least 1 dose of avapritinib, had at least 2 post-baseline bone marrow assessments and had been on study for at least 24 weeks, or had an end of study visit. The primary efficacy outcome measure was ORR per modified IWG-MRT-ECNM criteria as adjudicated by the central committee.

Of 107 patients enrolled in the study, 67 patients had at least one prior systemic therapy and were treated at a starting dose of 200 mg orally once daily.

The assessment of the primary efficacy endpoint was based on a total of 47 AdvSM patients, evaluable according to the modified IWG-MRT-ECNM response criteria, enrolled in the study, who received at least one prior systemic therapy and a starting dose of 200 mg avapritinib once daily with 78.7% of patients having received prior midostaurin, 17.0% prior cladribine, 14.9 % prior interferon alpha, 10.6% prior hydroxycarbamide and 6.4% prior azacytidine. Thirty seven (79%) out of the 47 patients with AdvSM who received at least one prior systemic therapy and a starting dose of 200 mg avapritinib had one or more dose reductions during the course of therapy with a median time to dose reduction of 6 weeks. The study population characteristics were: median age of 69 years (range: 31 to 86 years), 70% male, 92% white, ECOG PS of 0-3 (66% and 34% of patients had an ECOG PS of 0-1 and 2-3, respectively), and 89% had a detectable KIT D816V mutation. Before initiation of avapritinib treatment, the median bone marrow mast cell infiltrate was 70%, the median serum tryptase level was 325 ng/mL, and the median KIT D816V mutant allele fraction (MAF) was 26.2%.

Efficacy results in patients with AdvSM enrolled in the study, who received at least one prior systemic therapy and a starting dose of 200 mg avapritinib once daily, with a median duration of follow-up of 12 months are summarized in Table 6.

Table 6. Efficacy results for patients with advanced systemic mastocytosis who received at least one prior systemic therapy in PATHFINDER

<table>
<thead>
<tr>
<th>Efficacy parameter</th>
<th>Overall</th>
<th>ASM</th>
<th>SM-AHN</th>
<th>MCL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ORR</strong> per modified IWG-MRT-ECNM, n (%) (95% confidence interval)</td>
<td>N = 47</td>
<td>N = 8</td>
<td>N = 29</td>
<td>N = 10</td>
</tr>
<tr>
<td><strong>Response per modified IWG-MRT-ECNM category, n (%)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CR</td>
<td>28 (60)</td>
<td>5 (63)</td>
<td>19 (66)</td>
<td>4 (40)</td>
</tr>
<tr>
<td>(44.3, 73.6)</td>
<td>(24.5, 91.5)</td>
<td>(45.7, 82.1)</td>
<td>(12.2, 73.8)</td>
<td></td>
</tr>
<tr>
<td>CRh</td>
<td>1 (2)</td>
<td>0</td>
<td>1 (3)</td>
<td>0</td>
</tr>
<tr>
<td>4 (9)</td>
<td>2 (25)</td>
<td>2 (7)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>PR</td>
<td>19 (40)</td>
<td>3 (38)</td>
<td>13 (45)</td>
<td>3 (30)</td>
</tr>
<tr>
<td>CI</td>
<td>4 (9)</td>
<td>0</td>
<td>3 (10)</td>
<td>1 (10)</td>
</tr>
<tr>
<td><strong>DOR</strong> (months), median (95% confidence interval)</td>
<td>N = 28</td>
<td>N = 5</td>
<td>N = 19</td>
<td>N = 4</td>
</tr>
<tr>
<td>NR</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
<td>NR</td>
</tr>
<tr>
<td>(NE, NE)</td>
<td>(NE, NE)</td>
<td>(NE, NE)</td>
<td>(NE, NE)</td>
<td></td>
</tr>
<tr>
<td><strong>DOR rate at 12 months, %</strong></td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
<td>100.0</td>
</tr>
<tr>
<td><strong>DOR rate at 24 months, %</strong></td>
<td>85.6</td>
<td>NE</td>
<td>83.3</td>
<td>NE</td>
</tr>
<tr>
<td><strong>Time to response (months), median (min, max)</strong></td>
<td>N = 28</td>
<td>N = 5</td>
<td>N = 19</td>
<td>N = 4</td>
</tr>
<tr>
<td>1.9</td>
<td>2.3</td>
<td>1.9</td>
<td>3.6</td>
<td></td>
</tr>
<tr>
<td>(0.5, 12.2)</td>
<td>(1.8, 5.5)</td>
<td>(0.5, 5.5)</td>
<td>(1.7, 12.2)</td>
<td></td>
</tr>
</tbody>
</table>
### Time to CR/CRh (months), median (min, max)

<table>
<thead>
<tr>
<th>Group</th>
<th>N</th>
<th>Median</th>
<th>Min, Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>N = 5</td>
<td>3.7</td>
<td>(1.8, 14.8)</td>
<td></td>
</tr>
<tr>
<td>N = 2</td>
<td>2.8</td>
<td>(1.8, 3.7)</td>
<td></td>
</tr>
<tr>
<td>N = 3</td>
<td>5.6</td>
<td>(1.8, 14.8)</td>
<td></td>
</tr>
<tr>
<td>N = 0</td>
<td></td>
<td>NE</td>
<td></td>
</tr>
</tbody>
</table>

**Abbreviations:** CI=clinical improvement; CR=complete remission; CRh=complete remission with partial recovery of peripheral blood counts; DOR=duration of response; NE=not estimable; NR=not reached; ORR=overall response rate; PR=partial remission

1. **ORR** per modified IWG-MRT-ECNM is defined as patients who achieved a CR, CRh, PR or CI (CR + CRh + PR + CI)
2. Estimated from Kaplan-Meier analysis

Among patients treated with avapritinib at a starting dose of 200 mg once daily following at least one prior systemic therapy, 83.1% of patients had ≥50% decrease of bone marrow mast cells with 58.5% patients having complete elimination of bone marrow mast cell aggregates; 88.1% of patients had ≥50% reduction in serum tryptase with 49.3% reducing serum tryptase <20 ng/mL; 68.7% of patients had a ≥50% decrease in KIT D816V MAF in blood and 60.0% of patients had ≥35% spleen volume reduction from baseline.

In a supportive multi-center, single-arm, open-label Phase 1 study BLU-285-2101 (EXPLORER), the ORR according to the mIWG-MRT-ECNM criteria was 73% (95% confidence interval: 39.0, 94.0) for 11 AdvSM patients who received at least one prior systemic therapy and a starting dose of 200 mg avapritinib once daily.

**Elderly population**

**Unresectable or metastatic GIST**
Forty-two percent of the patients who received AYVAKYT at a starting dose of 300 mg and 400 mg once daily in NAVIGATOR were 65 years or older. No overall differences in efficacy were observed in comparison with younger patients. Only limited data are available from the use of avapritinib in patients aged 75 years or older (8% (3 out of 38)).

**Advanced systemic mastocytosis**
Of the 47 patients who received AYVAKYT at a starting dose of 200 mg and who received at least one prior systemic therapy in PATHFINDER, 64% were 65 years or older, while 21% were 75 years and older. No overall differences in efficacy were observed between patients ≥65 years and those <65 years.

**Paediatric population**

The European Medicines Agency has deferred the obligation to submit the results of studies with AYVAKYT in one or more subsets of the paediatric population with a relapsed/refractory solid tumour harbouring mutations in either KIT or PDGFRA (see section 4.2 for information on paediatric use).

The European Medicines Agency has waived the obligation to submit the results of studies with AYVAKYT in all subsets of the paediatric population with mastocytosis (see section 4.2 for information on paediatric use).

This medicinal product has been authorised under a so-called ‘conditional approval’ scheme. This means that further evidence on this medicinal product is awaited. The European Medicines Agency will review new information on this medicinal product at least every year and this SmPC will be updated as necessary.

### 5.2 Pharmacokinetic properties

Following administration of avapritinib once daily, steady state was reached by 15 days.
**Unresectable or metastatic GIST (300 mg once daily dose)**

After a single dose and repeat dosing of avapritinib, systemic exposure of avapritinib was dose-proportional over the dose range of 30 to 400 mg once daily in patients with unresectable or metastatic GIST. The steady state geometric mean (CV%) maximum concentration (C\text{max}) and area under the concentration-time curve (AUC\text{0-tau}) of avapritinib at 300 mg once daily was 813 ng/mL (52%) and 15400 h•ng/mL (48%), respectively. The geometric mean accumulation ratio after repeat dosing was 3.1 to 4.6.

**Advanced systemic mastocytosis (200 mg once daily dose)**

Steady-state C\text{max} and AUC of avapritinib increased proportionally over the dose range of 30 mg to 400 mg once daily in patients with AdvSM. The steady state geometric mean (CV%) C\text{max} and AUC\text{0-24} of avapritinib at 200 mg once daily was 377 ng/mL (62%) and 6600 h•ng/mL (54%), respectively. The geometric mean accumulation ratio after repeat dosing (30-400 mg) was 2.6 to 5.8.

**Absorption**

Following administration of single oral doses of avapritinib of 30 to 400 mg, the median time to peak concentration (T\text{max}) ranged from 2 to 4 hours postdose. The absolute bioavailability has not been determined. The population estimated mean oral bioavailability of avapritinib in patients with AdvSM is 20% lower, compared to that in the patients with GIST.

**Effect of food**

Avapritinib C\text{max} and AUC\text{inf} were increased by 59% and 29%, respectively, in healthy subjects administered avapritinib after a high fat meal (approximately 909 calories, 58 grams carbohydrate, 56 grams fat and 43 grams protein) compared to the C\text{max} and AUC\text{inf} after overnight fasting.

**Distribution**

Avapritinib is 98.8% bound to human plasma proteins in vitro and the binding is not concentration-dependent. The blood-to-plasma ratio is 0.95. Population estimated mean volume of distribution of avapritinib at steady-state (V\text{ss}/F) is 1232 L at median lean body weight of 56.8 kg.

**Biotransformation**

*In vitro* studies demonstrated that oxidative metabolism of avapritinib is predominantly mediated by CYP3A4, CYP3A5 and to a minor extent by CYP2C9. The relative contributions of CYP2C9 and CYP3A to the *in vitro* metabolism of avapritinib were 15.1% and 84.9%, respectively. The formation of the glucuronide M690 is catalysed mainly by UGT1A3. Following a single dose of approximately 310 mg (~100 µCi) [\text{14C}]avapritinib to healthy subjects, oxidation, glucuronidation, oxidative deamination and N-dealkylation were the primary metabolic pathways. Unchanged avapritinib (49%) and metabolites, M690 (hydroxy glucuronide; 35%) and M499 (oxidative deamination; 14%) were the major circulating radioactive components. Following oral administration of avapritinib 300 mg once daily in patients, the steady state AUC of the constitutive enantiomers of M499, BLU111207 and BLU111208 are approximately 35% and 42% of the AUC of avapritinib. Compared to avapritinib (IC\text{50} = 4 nM), the enantiomers BLU111207 (IC\text{50} = 41.8 nM) and BLU111208 (IC\text{50} = 12.4 nM) are 10.5- and 3.1-fold less potent against KIT D816V *in vitro*.

*In vitro* studies demonstrated that avapritinib is a direct inhibitor of CYP3A and a time-dependent inhibitor of CYP3A4, at clinically relevant concentrations (see section 4.5). *In vitro*, avapritinib did not inhibit CYP1A2, CYP2B6, CYP2C8, CYP2C9, CYP2C19, or CYP2D6 at clinically relevant concentrations.

*In vitro*, at clinically relevant concentrations, avapritinib induced CYP3A (see section 4.5). *In vitro*, avapritinib did not induce CYP1A2 or CYP2B6 at clinically relevant concentrations.
Elimination

Following single doses of AYVAKYT in patients with GIST and in patients with AdvSM, the mean plasma elimination half-life of avapritinib was 32 to 57 hours and 20 to 39 hours, respectively.

Population estimated mean apparent clearance (CL/F) of avapritinib is 16 L/h in GIST. Population estimated CL/F of avapritinib in AdvSM is 21.1 L/h at treatment initiation, followed by a time-dependent decline towards 16 L/h after 15 days. The inter-individual variability in CL/F is 42% at steady state.

Following a single oral dose of approximately 310 mg (~100 µCi) \[^{14}\text{C}]\text{avapritinib}\) to healthy subjects, 70% of the radioactive dose was recovered in faeces and 18% excreted in urine. Unchanged avapritinib accounted for 11% and 0.23% of the administered radioactive dose excreted in faeces and urine, respectively.

Effects of avapritinib on transport proteins

*In vitro*, avapritinib is not a substrate of P-gp, BCRP, OAT1, OAT3, OCT1, OCT2, OATP1B1, OATP1B3, MATE1, MATE2-K and BSEP at clinically relevant concentrations.

Avapritinib is an inhibitor of P-gp, BCRP, MATE1, MATE2-K, and BSEP in vitro (see section 4.5). *In vitro*, avapritinib did not inhibit OATP1B1, OATP1B3, OAT1, OAT3, OCT1, or OCT2 at clinically relevant concentrations.

Gastric acid reducing active substances

No clinical drug-drug interaction studies have been conducted. Based on both population and noncompartmental pharmacokinetic analyses for patients with GIST and AdvSM taking gastric acid reducing agents, the effect of gastric acid reducing agents on the bioavailability of avapritinib is not clinically relevant.

Special populations

Population pharmacokinetic analyses indicate that age (18-90 years), body weight (40-156 kg), sex and albumin concentration have no effect on the exposure of avapritinib. Concomitant use of proton pump inhibitors (PPI) on bioavailability (F) and lean body weight on the apparent central volume of distribution (Vc/F) were identified as significant covariates with impact on avapritinib exposure. Lean body weight (30 kg to 80 kg) showed modest impact on C\text{max} at steady state (+/- 5%), while concomitant use of PPIs led to ~17% reduction in AUC and C\text{max}. These minor effects on exposure are not clinically significant given the PK variability (>40% CV) and are not expected to impact efficacy or safety. No significant effect of race on the pharmacokinetics of avapritinib was found, although the low number of Black (N=26) and Asian (N=25) subjects limits the conclusions that can be derived based on race.

Hepatic impairment

As hepatic elimination is a major route of excretion for avapritinib, hepatic impairment may result in increased plasma avapritinib concentrations. Based on a population pharmacokinetic analysis, avapritinib exposures were similar between 72 subjects with mild hepatic impairment (total bilirubin within upper limit of normal [ULN] and AST > ULN or total bilirubin >1 to 1.5 times ULN and any AST), 13 subjects with moderate hepatic impairment (total bilirubin >1.5 to 3.0 times ULN and any AST), and 402 subjects with normal hepatic function (total bilirubin and AST within ULN). The pharmacokinetics of avapritinib in patients with severe hepatic impairment (total bilirubin >3.0 times ULN and any AST) has not been studied.

Renal impairment

Based on a population pharmacokinetic analysis, avapritinib exposures were similar among 136 subjects with mild renal impairment (CLcr 60-89 mL/min), 52 subjects with moderate renal
impairment (CLcr 30-59 mL/min) and 298 subjects with normal renal function (CLcr ≥90 mL/min), suggesting that no dose adjustment is necessary in patients with mild to moderate renal impairment. The pharmacokinetics of avapritinib in patients with severe renal impairment (CLcr 15-29 mL/min) or end-stage renal disease (CLcr <15 mL/min) has not been studied.

5.3 Preclinical safety data

Repeat dose toxicology studies
Avapritinib was evaluated in repeat-dose toxicology studies of up to 6 months in rats and 9 months in dogs. Brain haemorrhages and hypospermatogenesis in dogs, as well as ovarian haemorrhages in rats, were not reversible with a 2-month recovery period.

Repeat dose studies in dogs indicated haemorrhage and choroid plexus oedema in the brain at ≥ 0.4 times the human exposure at the clinical dose of 300 mg once daily. Rats manifested convulsions, which was potentially secondary to inhibition of Nav 1.2 at systemic exposures ≥8-fold higher than the exposure in patients at the clinical dose of 300 mg once daily. This effect was not seen in dogs.

Genotoxicity/carcinogenicity
Avapritinib was not mutagenic in vitro in the bacterial reverse mutation assay (Ames test). It was positive in the in vitro chromosome aberration test in cultured human peripheral blood lymphocytes but negative in the rats for both the bone marrow micronucleus test and for the chromosomal damage liver comet assays, and thus, overall non-genotoxic. Carcinogenicity studies with avapritinib have not been conducted.

Toxicity to reproduction and development
A combined male and female fertility and early embryonic development study was conducted in rats at oral avapritinib doses of 3, 10, and 30 mg/kg/day for males, and 3, 10, and 20 mg/kg/day for females. Male rats were dosed 4 weeks prior to mating and through mating and female rats were dosed 2 weeks prior to mating and to gestation day 7. No effect on male or female fertility was noted. Administration of 30 mg/kg/day to rats resulted in an AUC that was approximately 9-fold higher than the human exposure at 300 mg.

Avapritinib partitioned into seminal fluids up to 0.5 times the concentration found in human plasma at 200 mg. In female rats there was an increase in pre-implantation loss at the dose of 20 mg/kg/day (12.6 times the human exposure at 200 mg) and in early resorptions at doses ≥ 10 mg/kg (6.3 times the human exposure at 200 mg) with an overall decrease in viable embryos at doses ≥ 10 mg/kg. Cystic degeneration of corpora lutea and vaginal mucification was also observed in female rats administered avapritinib for up to 6 months at doses greater than or equal to 3 mg/kg/day (approximately 3.0 times the human exposure based on AUC at the 200 mg dose).

Avapritinib showed embryotoxic and teratogenic effects (decreases in foetal weights and viability, and increases in visceral and skeletal malformations) in an embryo-foetal development toxicity study in rats.

In repeat-dose toxicology studies, reduction in sperm production and testicular weight were observed in male rats and hypospermatogenesis in dogs administered avapritinib at exposure of 1 to 5 times and 1 time the 200 mg human dose, respectively.

Phototoxicity studies
An in vitro phototoxicity study in 3T3 mouse fibroblasts as well as a phototoxicity study in pigmented rats demonstrated that avapritinib has a slight potential for phototoxicity.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients
Tablet core
Microcrystalline cellulose
Copovidone
Crocarmellose sodium
Magnesium stearate

Tablet coat
Talc
Macrogol 3350
Poly(vinyl alcohol)
Titanium dioxide (E171)

Printing ink (for 100 mg, 200 mg and 300 mg film-coated tablets only)
Shellac glaze 45% (20% esterified) in ethanol
Brilliant blue FCF (E133)
Titanium dioxide (E171)
Black iron oxide (E172)
Propylene glycol

6.2 Incompatibilities
Not applicable.

6.3 Shelf life
AYVAKYT 25 mg and 50 mg film-coated tablets
2 years.

AYVAKYT 100 mg, 200 mg and 300 mg film-coated tablets
30 months.

6.4 Special precautions for storage
This medicinal product does not require any special storage conditions.

6.5 Nature and contents of container
High-density polyethylene (HDPE) bottle with child-resistant cap (polypropylene) with foiled
induction seal liner (pulp backed heat induction foil) and a desiccant in canister.

Each carton contains one bottle with 30 film-coated tablets.

6.6 Special precautions for disposal
Any unused medicinal product or waste material should be disposed of in accordance with local
requirements.

7. MARKETING AUTHORISATION HOLDER
Blueprint Medicines (Netherlands) B.V.
Gustav Mahlerplein 2
1082 MA Amsterdam
Netherlands
8. MARKETING AUTHORISATION NUMBER(S)

AYVAKYT 25 mg film-coated tablets
EU/1/20/1473/004

AYVAKYT 50 mg film-coated tablets
EU/1/20/1473/005

AYVAKYT 100 mg film-coated tablets
EU/1/20/1473/001

AYVAKYT 200 mg film-coated tablets
EU/1/20/1473/002

AYVAKYT 300 mg film-coated tablets
EU/1/20/1473/003

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorization: 24 September 2020

Date of latest renewal: 23 July 2021

10. DATE OF REVISION OF THE TEXT

Detailed information on this medicinal product is available on the website of the European Medicines Agency http://www.ema.europa.eu.
ANNEX II

A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

E. SPECIFIC OBLIGATION TO COMPLETE POST-AUTHORISATION MEASURES FOR THE CONDITIONAL MARKETING AUTHORISATION
A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturer(s) responsible for batch release

Blueprint Medicines (Netherlands) B.V.
Gustav Mahlerplein 2
1082 MA Amsterdam
Netherlands

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to restricted medical prescription (see Annex I: Summary of Product Characteristics, section 4.2).

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

- Periodic safety update reports (PSURs)

The requirements for submission of PSURs for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines web-portal.

The marketing authorisation holder (MAH) shall submit the first PSUR for this product within 6 months following authorisation.

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

- Risk management plan (RMP)

The MAH shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the marketing authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:
  - At the request of the European Medicines Agency;
  - Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.

E. SPECIFIC OBLIGATION TO COMPLETE POST-AUTHORISATION MEASURES FOR THE CONDITIONAL MARKETING AUTHORISATION

This being a conditional marketing authorisation and pursuant to Article 14-a of Regulation (EC) No 726/2004, the MAH shall complete, within the stated timeframe, the following measures:

<table>
<thead>
<tr>
<th>Description</th>
<th>Due date</th>
</tr>
</thead>
<tbody>
<tr>
<td>In order to further confirm the safety and efficacy of avapritinib in the treatment of adult patients with unresectable or metastatic GIST harbouring the PDGFRA D842V mutation, the MAH should submit the results of study BLU-285-1101, an</td>
<td>December 2021</td>
</tr>
<tr>
<td>Description</td>
<td>Due date</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>ongoing single-arm, open-label multiple-cohort Phase 1 study in patients with GIST and other relapsed and refractory solid tumours.</td>
<td></td>
</tr>
<tr>
<td>In order to further confirm the safety and efficacy of avapritinib in the treatment of adult patients with unresectable or metastatic GIST harbouring the PDGFRA D842V mutation, the MAH should submit the results of an observational safety and efficacy study in patients with unresectable or metastatic PDGFRA D842V-mutant GIST.</td>
<td>December 2027</td>
</tr>
</tbody>
</table>
ANNEX III

LABELLING AND PACKAGE LEAFLET
A. LABELLING
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON 25 MG FILM-COATED TABLETS

1. NAME OF THE MEDICINAL PRODUCT

AYVAKYT 25 mg film-coated tablets
avapritinib

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each film-coated tablet contains 25 mg avapritinib.

3. LIST OF EXCIPIENTS

4. PHARMACEUTICAL FORM AND CONTENTS

Film-coated tablets
30 film-coated tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use.
Do not swallow the desiccant canister found in the bottle.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE

EXP

9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Blueprint Medicines (Netherlands) B.V.
Gustav Mahlerplein 2
1082 MA Amsterdam
Netherlands
<table>
<thead>
<tr>
<th>12. MARKETING AUTHORISATION NUMBER(S)</th>
<th>EU/1/20/1473/004</th>
</tr>
</thead>
<tbody>
<tr>
<td>13. BATCH NUMBER</td>
<td>Lot</td>
</tr>
<tr>
<td>14. GENERAL CLASSIFICATION FOR SUPPLY</td>
<td></td>
</tr>
<tr>
<td>15. INSTRUCTIONS ON USE</td>
<td></td>
</tr>
<tr>
<td>16. INFORMATION IN BRAILLE</td>
<td>AYVAKYT 25 mg</td>
</tr>
<tr>
<td>17. UNIQUE IDENTIFIER – 2D BARCODE</td>
<td>2D barcode carrying the unique identifier included.</td>
</tr>
</tbody>
</table>
| 18. UNIQUE IDENTIFIER - HUMAN READABLE DATA | PC  
|                                          | SN  
|                                          | NN  |
**PARTICULARS TO APPEAR ON THE IMMEDIATE PACKAGING**

**BOTTLE LABEL – 25 MG FILM-COATED TABLETS**

<table>
<thead>
<tr>
<th>1.  NAME OF THE MEDICINAL PRODUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AYVAKYT 25 mg film-coated tablets</td>
</tr>
<tr>
<td>avapritinib</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2.  STATEMENT OF ACTIVE SUBSTANCE(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each film-coated tablet contains 25 mg avapritinib.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3.  LIST OF EXCIPIENTS</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>4.  PHARMACEUTICAL FORM AND CONTENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Film-coated tablets</td>
</tr>
<tr>
<td>30 film-coated tablets</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5.  METHOD AND ROUTE(S) OF ADMINISTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read the package leaflet before use.</td>
</tr>
<tr>
<td>Oral use.</td>
</tr>
<tr>
<td>Do not swallow the desiccant canister found in the bottle.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6.  SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keep out of the sight and reach of children.</td>
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<thead>
<tr>
<th>7.  OTHER SPECIAL WARNING(S), IF NECESSARY</th>
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<tr>
<th>8.  EXPIRY DATE</th>
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<td>EXP</td>
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<table>
<thead>
<tr>
<th>9.  SPECIAL STORAGE CONDITIONS</th>
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<tr>
<th>10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE</th>
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EU/1/20/1473/004

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

17. UNIQUE IDENTIFIER – 2D BARCODE

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA
<table>
<thead>
<tr>
<th>PARTICULARS TO APPEAR ON THE OUTER PACKAGING</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTER CARTON 50 MG FILM-COATED TABLETS</td>
</tr>
</tbody>
</table>

1. **NAME OF THE MEDICINAL PRODUCT**

AYVAKYT 50 mg film-coated tablets
avapritinib

2. **STATEMENT OF ACTIVE SUBSTANCE(S)**

Each film-coated tablet contains 50 mg avapritinib.

3. **LIST OF EXCIPIENTS**

4. **PHARMACEUTICAL FORM AND CONTENTS**

Film-coated tablets
30 film-coated tablets

5. **METHOD AND ROUTE(S) OF ADMINISTRATION**

Read the package leaflet before use.
Oral use.
Do not swallow the desiccant canister found in the bottle.

6. **SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN**

Keep out of the sight and reach of children.

7. **OTHER SPECIAL WARNING(S), IF NECESSARY**

8. **EXPIRY DATE**

EXP

9. **SPECIAL STORAGE CONDITIONS**

10. **SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**

11. **NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

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<td>14. GENERAL CLASSIFICATION FOR SUPPLY</td>
<td></td>
</tr>
<tr>
<td>15. INSTRUCTIONS ON USE</td>
<td></td>
</tr>
<tr>
<td>16. INFORMATION IN BRAILLE</td>
<td>AYVAKYT 50 mg</td>
</tr>
<tr>
<td>17. UNIQUE IDENTIFIER – 2D BARCODE</td>
<td>2D barcode carrying the unique identifier included.</td>
</tr>
<tr>
<td>18. UNIQUE IDENTIFIER - HUMAN READABLE DATA</td>
<td>PC, SN, NN</td>
</tr>
</tbody>
</table>
**PARTICULARS TO APPEAR ON THE IMMEDIATE PACKAGING**

**BOTTLE LABEL – 50 MG FILM-COATED TABLETS**

<table>
<thead>
<tr>
<th>1. NAME OF THE MEDICINAL PRODUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AYVAKYT 50 mg film-coated tablets</td>
</tr>
<tr>
<td>avapritinib</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. STATEMENT OF ACTIVE SUBSTANCE(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each film-coated tablet contains 50 mg avapritinib.</td>
</tr>
</tbody>
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<table>
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<tr>
<th>3. LIST OF EXCIPIENTS</th>
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<th>4. PHARMACEUTICAL FORM AND CONTENTS</th>
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<td>Film-coated tablets</td>
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<tr>
<th>5. METHOD AND ROUTE(S) OF ADMINISTRATION</th>
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<tbody>
<tr>
<td>Read the package leaflet before use.</td>
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<tr>
<td>Oral use.</td>
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<td><strong>13.</strong> BATCH NUMBER</td>
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<tr>
<td><strong>14.</strong> GENERAL CLASSIFICATION FOR SUPPLY</td>
</tr>
<tr>
<td><strong>15.</strong> INSTRUCTIONS ON USE</td>
</tr>
<tr>
<td><strong>16.</strong> INFORMATION IN BRAILLE</td>
</tr>
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<td><strong>17.</strong> UNIQUE IDENTIFIER – 2D BARCODE</td>
</tr>
<tr>
<td><strong>18.</strong> UNIQUE IDENTIFIER - HUMAN READABLE DATA</td>
</tr>
<tr>
<td>PARTICULARS TO APPEAR ON THE OUTER PACKAGING</td>
</tr>
<tr>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>OUTER CARTON 100 MG FILM-COATED TABLETS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1. NAME OF THE MEDICINAL PRODUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AYVAKYT 100 mg film-coated tablets</td>
</tr>
<tr>
<td>avapritinib</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. STATEMENT OF ACTIVE SUBSTANCE(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each film-coated tablet contains 100 mg avapritinib.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. LIST OF EXCIPIENTS</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>4. PHARMACEUTICAL FORM AND CONTENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Film-coated tablets</td>
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<tr>
<td>30 film-coated tablets</td>
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<tr>
<th>5. METHOD AND ROUTE(S) OF ADMINISTRATION</th>
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<td>Read the package leaflet before use.</td>
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<td>Oral use.</td>
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<tr>
<th>7. OTHER SPECIAL WARNING(S), IF NECESSARY</th>
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</table>

<table>
<thead>
<tr>
<th>8. EXPIRY DATE</th>
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<tbody>
<tr>
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<tr>
<th>9. SPECIAL STORAGE CONDITIONS</th>
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<tr>
<th>10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE</th>
</tr>
</thead>
</table>

39
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Blueprint Medicines (Netherlands) B.V.
Gustav Mahlerplein 2
1082 MA Amsterdam
Netherlands

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/20/1473/001

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

AYVAKYT 100 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
NN
| PARTICULARS TO APPEAR ON THE IMMEDIATE PACKAGING |
| BOTTLE LABEL – 100 MG FILM-COATED TABLETS |

| 1. NAME OF THE MEDICINAL PRODUCT |
| AYVAKYT 100 mg film-coated tablets |
| avapritinib |

| 2. STATEMENT OF ACTIVE SUBSTANCE(S) |
| Each film-coated tablet contains 100 mg avapritinib. |

| 3. LIST OF EXCIPIENTS |
| |

| 4. PHARMACEUTICAL FORM AND CONTENTS |
| Film-coated tablets |
| 30 film-coated tablets |

| 5. METHOD AND ROUTE(S) OF ADMINISTRATION |
| Read the package leaflet before use. |
| Oral use. |
| Do not swallow the desiccant canister found in the bottle. |

| 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN |
| Keep out of the sight and reach of children. |

| 7. OTHER SPECIAL WARNING(S), IF NECESSARY |
| |

| 8. EXPIRY DATE |
| EXP |

| 9. SPECIAL STORAGE CONDITIONS |
| |

<p>| 10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE |
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| 14. GENERAL CLASSIFICATION FOR SUPPLY                  |
|                                                      |

| 15. INSTRUCTIONS ON USE                                |
|                                                      |

| 16. INFORMATION IN BRAILLE                             |
|                                                      |

| 17. UNIQUE IDENTIFIER – 2D BARCODE                    |
|                                                      |

| 18. UNIQUE IDENTIFIER - HUMAN READABLE DATA            |
|                                                      |
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON 200 MG FILM-COATED TABLETS

1. NAME OF THE MEDICINAL PRODUCT

AYVAKYT 200 mg film-coated tablets
avapritinib

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each film-coated tablet contains 200 mg avapritinib.

3. LIST OF EXCIPIENTS

4. PHARMACEUTICAL FORM AND CONTENTS

Film-coated tablets
30 film-coated tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use.
Do not swallow the desiccant canister found in the bottle.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE

EXP

9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE
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|   | 15. INSTRUCTIONS ON USE                                  |

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<th></th>
<th>16. INFORMATION IN BRAILLE</th>
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<tbody>
<tr>
<td></td>
<td>AYVAKYT 200 mg</td>
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<td></td>
<td>PC</td>
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<td></td>
<td>SN</td>
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<td></td>
<td>NN</td>
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</table>
PARTICULARS TO APPEAR ON THE IMMEDIATE PACKAGING

BOTTLE LABEL – 200 MG FILM-COATED TABLETS

1. NAME OF THE MEDICINAL PRODUCT

AYVAKYT 200 mg film-coated tablets
avapritinib

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each film-coated tablet contains 200 mg avapritinib.

3. LIST OF EXCIPIENTS

4. PHARMACEUTICAL FORM AND CONTENTS

Film-coated tablets
30 film-coated tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use.
Do not swallow the desiccant canister found in the bottle.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE

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9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

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</table>
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON 300 MG FILM-COATED TABLETS

1. NAME OF THE MEDICINAL PRODUCT

AYVAKYT 300 mg film-coated tablets
avapritinib

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each film-coated tablet contains 300 mg avapritinib.

3. LIST OF EXCIPIENTS

4. PHARMACEUTICAL FORM AND CONTENTS

Film-coated tablets
30 film-coated tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use.
Do not swallow the desiccant canister found in the bottle.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE

EXP

9. SPECIAL STORAGE CONDITIONS

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Netherlands

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/20/1473/003

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

AYVAKYT 300 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
NN
PARTICULARS TO APPEAR ON THE IMMEDIATE PACKAGING

BOTTLE LABEL – 300 MG FILM-COATED TABLETS

1. NAME OF THE MEDICINAL PRODUCT

AYVAKY® 300 mg film-coated tablets
avapritinib

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each film-coated tablet contains 300 mg avapritinib.

3. LIST OF EXCIPIENTS

4. PHARMACEUTICAL FORM AND CONTENTS

Film-coated tablets
30 film-coated tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use.
Do not swallow the desiccant canister found in the bottle.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE

EXP

9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Blueprint Medicines (Netherlands) B.V.
Gustav Mahlerplein 2
1082 MA Amsterdam
Netherlands

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/20/1473/003

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

17. UNIQUE IDENTIFIER – 2D BARCODE

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA
B. PACKAGE LEAFLET
Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

1. What AYVAKYT is and what it is used for
2. What you need to know before you take AYVAKYT
3. How to take AYVAKYT
4. Possible side effects
5. How to store AYVAKYT
6. Contents of the pack and other information

1. What AYVAKYT is and what it is used for

What AYVAKYT is
AYVAKYT is a medicine containing the active substance avapritinib.

What AYVAKYT is used for
AYVAKYT is used in adults to treat aggressive systemic mastocytosis (ASM), systemic mastocytosis with associated haematological neoplasm (SM-AHN), or mast cell leukaemia (MCL), after at least one systemic therapy. These are disorders in which the body produces too many mast cells, a type of white blood cell. Symptoms are caused when too many mast cells enter various organs of your body, such as the liver, bone marrow or spleen. These mast cells also release substances such as histamine which cause various general symptoms that you may be experiencing as well as damage to involved organs. ASM, SM-AHN and MCL are collectively referred to as advanced systemic mastocytosis (AdvSM).

How AYVAKYT works
AYVAKYT stops the activity of a group of proteins in the body called kinases. Mast cells in patients with AdvSM usually have changes (mutations) in the genes involved in making specific kinases associated with the growth and spread of these cells.

If you have any questions about how AYVAKYT works or why this medicine has been prescribed for you, please ask your doctor.

2. What you need to know before you take AYVAKYT

Do not take AYVAKYT:
- if you are allergic to avapritinib or any of the other ingredients of this medicine (listed in section 6).

**Warnings and precautions**

Talk to your doctor or pharmacist before taking AYVAKYT:

- **if you have suffered a vascular aneurysm** (bulging and weakening of a blood vessel wall) or **bleeding in your brain** in the last year.
- **if you have low platelet counts.**

Take special care with this medicine:

- You may develop symptoms such as **severe headache, vision problems, severe sleepiness, or severe weakness on one side of your body (signs of bleeding in your brain).** If these occur, contact your doctor immediately and temporarily stop treatment. For patients with AdvSM, your doctor will evaluate your platelet counts before you start treatment and monitor them as needed during your treatment with avapritinib.
- Treatment with this medicine may lead to a **higher risk of bleeding.** Avapritinib can cause bleeding in the digestive system such as stomach, rectum, or intestine. Tell your doctor if you had or have any bleeding problems and if you are taking warfarin, phenprocoumon or another medicine that thins the blood to prevent blood clots. Before you start taking avapritinib your doctor may decide to do blood tests. Get medical help immediately, if you get the following symptoms: passing blood in the stools or passing black stools, stomach pain, coughing/vomiting up blood.
- You may also develop **memory loss, changes in memory, or be confused (signs of a cognitive effect).** Avapritinib can sometimes change how you think and how you remember information. Contact your doctor in case you experience these symptoms or in case a family member, caregiver or someone who knows you notices that you are getting forgetful or confused.
- During treatment with this medicine, tell your doctor straight away if **you put on weight very quickly, develop swelling of your face or limbs, have difficulty breathing or become short of breath.** This medicine may cause your body to retain water (severe fluid retention).
- Avapritinib may cause **abnormality of your heart rhythm.** Your doctor may conduct tests to evaluate these problems during your treatment with avapritinib. Tell your doctor if you feel dizzy, faint, or have abnormal heartbeats while taking this medicine.
- You may get **severe stomach and bowel problems (diarrhoea, nausea and vomiting).** Get medical help immediately if you experience these symptoms.
- You may become **more sensitive to the sun** while taking this medicine. It is important to cover sun-exposed areas of skin and use sunscreen with high sun protection factor (SPF).

While you are taking avapritinib, your doctor will ask you to have regular blood tests. You will also be weighed regularly.

For more information see section 4.

**Children and adolescents**

AYVAKYT has not been studied in children and adolescents under age 18. Do not give this medicine to children or adolescents under the age of 18 years.

**Other medicines and AYVAKYT**

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines. AYVAKYT may affect the way other medicines work, and certain other medicines may affect how this medicine works.

**Tell your doctor or pharmacist before taking AYVAKYT if you are taking any of the following medicines:**

The following medicines can increase the effects of avapritinib and may increase its side effects:
- Boceprevir – used to treat hepatitis C
- Cobicistat, indinavir, lopinavir, nelfinavir, ritonavir, saquinavir – used to treat HIV infections/AIDS
- Clarithromycin, erythromycin, telithromycin – used to treat bacterial infections
- Itraconazole, ketoconazole, posaconazole, voriconazole – used to treat serious fungal infections
- Conivaptan – used to treat low blood sodium levels (hyponatraemia)

The following medicines can reduce the effects of avapritinib:
- Rifampicin – used to treat tuberculosis (TB) and some other bacterial infections
- Carbamazepine, phenytoin, fosphenytoin, primidone, phenobarbital – used to treat epilepsy
- St. John’s wort (Hypericum perforatum) – an herbal medicine used for depression
- Bosentan – used to treat high blood pressure
- Efavirenz and etravirine – used to treat HIV infections/AIDS
- Modafinil – used to treat sleep disorders
- Dabrafenib – used to treat certain cancers
- Nafcillin – used to treat certain bacterial infections
- Dexamethasone – used to reduce inflammation

This medicine may affect how well the following medicines work or increase their side effects:
- Alfentanil – used to control pain during operations and medical procedures
- Atazanavir – used to treat HIV infection/AIDS
- Midazolam – used for anaesthesia, sedation or to decrease anxiety
- Simvastatin – used to treat high cholesterol
- Sirolimus, tacrolimus – used to prevent organ transplant rejection

Ask your doctor or pharmacist for advice before taking any medicine.

**AYVAKYT with food and drink**
You should not drink grapefruit juice or eat grapefruit while on treatment with AYVAKYT.

**Pregnancy and breast-feeding**
If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before taking this medicine.

**Pregnancy**
This medicine is not recommended for use during pregnancy unless clearly necessary. Avoid becoming pregnant while being treated with this medicine as it may harm your unborn baby. Your doctor will discuss with you the potential risks of taking AYVAKYT during pregnancy.

Your doctor may check if you are pregnant before you start treatment with this medicine.

Women who are able to become pregnant and males with female partners who are able to become pregnant should use effective contraception during treatment and for at least 1 month after completion of treatment. Talk to your doctor about effective contraception methods that may be right for you.

**Breast-feeding**
Tell your doctor if you are breast-feeding or planning to breast-feed. It is not known if AYVAKYT passes into breast milk. You should not breast-feed during treatment with this medicine and for at least 2 weeks following the last dose. Talk to your doctor about the best way to feed your baby during this time.

**Driving and using machines**
AYVAKYT may cause symptoms that affect your ability to concentrate and react (see section 4). Therefore, AYVAKYT may influence the ability to drive and use machines. Take special care when driving a car or operating machines if you experience these side effects.

**AYVAKYT contains sodium**
This medicine contains less than 1 mmol sodium (23 mg) per tablet, that is to say essentially “sodium-free”.

3. **How to take AYVAKYT**

Always take this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.

**Which strength of AYVAKYT to use**
The recommended dose of AYVAKYT will depend on your illness – see below. AYVAKYT is available in different strength tablets. The strengths are 25 mg, 50 mg, 100 mg, 200 mg and 300 mg. Your doctor will advise you about the strength and number of tablets you should take:

**Treatment of AdvSM**
The recommended dose is 200 mg by mouth once daily.

If you get side effects, your doctor may change your dose, temporarily stop, or permanently stop treatment. Do not change your dose or stop taking AYVAKYT unless your doctor tells you to.

Swallow the AYVAKYT tablet(s) whole with a glass of water, on an empty stomach. Do not eat for at least 2 hours before and at least 1 hour after taking AYVAKYT.

If you vomit after taking a dose of AYVAKYT, do not take an extra dose. Take your next dose at your scheduled time.

If you take more AYVAKYT than you should
If you have accidentally taken too many tablets, talk to your doctor straight away. You may require medical attention.

If you forget to take AYVAKYT
If you miss a dose of AYVAKYT, take it as soon as you remember unless your next scheduled dose is due within 8 hours. Take the next dose at your regular time.

Do not take two doses within 8 hours to make up for a forgotten dose.

4. **Possible side effects**

Like all medicines, this medicine can cause side effects, although not everybody gets them.

**Most serious side effects**
Some side effects may be serious. Tell your doctor straight away if you get any of the following (see also section 2.):
- severe headache, vision problems, severe sleepiness, severe weakness on one side of your body (signs of bleeding in your brain)
- memory loss, changes in memory, or confusion (signs of a cognitive effect)

**Other side effects may include**
**Very common** (may affect more than 1 in 10 people):
- altered taste
- memory loss, changes in memory, or confusion (cognitive effects)
- diarrhoea
- nausea, retching and vomiting
- change in hair colour
- swelling (e.g. feet, ankle, face, eye, joint)
- tiredness
- blood tests showing low blood platelets, often associated with easy bruising or bleeding
- blood tests showing decrease in red blood cells (anaemia) and white blood cells

**Common** (may affect up to 1 in 10 people):
- headache
- dizziness
- decreased sensation, numbness, tingling, or increased sensitivity to pain in arms and legs
- bleeding in your brain
- increased tear production
- nose bleed
- shortness of breath
- heartburn
- increased fluid in the abdomen
- dryness affecting eyes, lips, mouth and skin
- constipation, flatulence (gas)
- abdominal (belly) pain
- gastrointestinal bleed
- rash
- hair loss
- pain
- weight gain
- changes in the electric activity of the heart
- bruising
- blood tests showing increased stress on the liver and high levels of bilirubin, a substance produced by the liver

**Uncommon** (may affect up to 1 in 100 people):
- fluid around the heart
- red or itchy skin
- blood tests showing decreased kidney function

**Reporting of side effects**
If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

5. **How to store AYVAKYT**

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the bottle label and outer carton after "EXP". The expiry date refers to the last day of that month.

This medicine does not require any special storage conditions.

Do not use this medicine if you notice that the bottle is damaged or shows signs of tampering.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. **Contents of the pack and other information**

**What AYVAKYT contains**
- The active substance is avapritinib. Each film-coated tablet contains 25 mg avapritinib.
- The other ingredients are:
  - The tablet core contains: microcrystalline cellulose, copovidone, croscarmellose sodium and magnesium stearate (see section 2 “AYVAKYT contains sodium”).
  - The tablet coating contains: talc, macrogol 3350, poly(vinyl alcohol), and titanium dioxide (E171).

**What AYVAKYT looks like and contents of the pack**
AYVAKYT 25 mg film-coated tablets are round, white tablets of 5 mm diameter, debossed with “BLU” on one side and “25” on the other.

AYVAKYT is supplied in a bottle containing 30 film-coated tablets. Each carton contains one bottle.

Keep the desiccant canister in the bottle.

**Marketing Authorisation Holder and Manufacturer**
Blueprint Medicines (Netherlands) B.V.
Gustav Mahlerplein 2
1082 MA Amsterdam
Netherlands

For any information about this medicine, please contact the Marketing Authorization Holder:

Blueprint Medicines (Netherlands) B.V., NL
Tel/ Tél/ Tél/ Téle/ Tél/ Sími/ Puh: +31 85 064 4001
e-mail: MedinfoEurope@blueprintmedicines.com

**This leaflet was last revised in**

This medicine has been given ‘conditional approval’.
This means that there is more evidence to come about this medicine.
The European Medicines Agency will review new information on this medicine at least every year and this leaflet will be updated as necessary.

**Other sources of information**
Detailed information on this medicine is available on the European Medicines Agency web site:
This medicine is subject to additional monitoring. This will allow quick identification of new safety information. You can help by reporting any side effects you may get. See the end of section 4 for how to report side effects.

Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.
- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
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What is in this leaflet
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2. What you need to know before you take AYVAKYT
3. How to take AYVAKYT
4. Possible side effects
5. How to store AYVAKYT
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1. What AYVAKYT is and what it is used for

What AYVAKYT is
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How AYVAKYT works
AYVAKYT stops the activity of a group of proteins in the body called kinases. Mast cells in patients with AdvSM usually have changes (mutations) in the genes involved in making specific kinases associated with the growth and spread of these cells.

If you have any questions about how AYVAKYT works or why this medicine has been prescribed for you, please ask your doctor.

2. What you need to know before you take AYVAKYT

Do not take AYVAKYT:
- if you are allergic to avapritinib or any of the other ingredients of this medicine (listed in section 6).

**Warnings and precautions**
Talk to your doctor or pharmacist before taking AYVAKYT:
- **if you have suffered a vascular aneurysm** (bulging and weakening of a blood vessel wall) or **bleeding in your brain** in the last year.
- **if you have low platelet counts.**

Take special care with this medicine:
- You may develop symptoms such as **severe headache, vision problems, severe sleepiness, or severe weakness on one side of your body (signs of bleeding in your brain).** If these occur, contact your doctor immediately and temporarily stop treatment. For patients with AdvSM, your doctor will evaluate your platelet counts before you start treatment and monitor them as needed during your treatment with avapritinib.
- Treatment with this medicine may lead to a **higher risk of bleeding.** Avapritinib can cause bleeding in the digestive system such as stomach, rectum, or intestine. Tell your doctor if you had or have any bleeding problems and if you are taking warfarin, phenprocoumon or another medicine that thins the blood to prevent blood clots. Before you start taking avapritinib your doctor may decide to do blood tests. Get medical help immediately, if you get the following symptoms: passing blood in the stools or passing black stools, stomach pain, coughing/vomiting up blood.
- You may also develop **memory loss, changes in memory, or be confused (signs of a cognitive effect).** Avapritinib can sometimes change how you think and how you remember information. Contact your doctor in case you experience these symptoms or in case a family member, caregiver or someone who knows you notices that you are getting forgetful or confused.
- During treatment with this medicine, tell your doctor straight away **if you put on weight very quickly, develop swelling of your face or limbs, have difficulty breathing or become short of breath.** This medicine may cause your body to retain water (severe fluid retention).
- Avapritinib may cause **abnormality of your heart rhythm.** Your doctor may conduct tests to evaluate these problems during your treatment with avapritinib. Tell your doctor if you feel dizzy, faint, or have abnormal heartbeats while taking this medicine.
- You may get **severe stomach and bowel problems (diarrhoea, nausea and vomiting).** Get medical help immediately if you experience these symptoms.
- You may become **more sensitive to the sun** while taking this medicine. It is important to cover sun-exposed areas of skin and use sunscreen with high sun protection factor (SPF).

While you are taking avapritinib, your doctor will ask you to have regular blood tests. You will also be weighed regularly.

For more information see section 4.

**Children and adolescents**
AYVAKYT has not been studied in children and adolescents under age 18. Do not give this medicine to children or adolescents under the age of 18 years.

**Other medicines and AYVAKYT**
Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines. AYVAKYT may affect the way other medicines work, and certain other medicines may affect how this medicine works.

**Tell your doctor or pharmacist before taking AYVAKYT if you are taking any of the following medicines:**

The following medicines can increase the effects of avapritinib and may increase its side effects:
- Boceprevir – used to treat hepatitis C
- Cobicistat, indinavir, lopinavir, nelfinavir, ritonavir, saquinavir – used to treat HIV infections/AIDS
- Clarithromycin, erythromycin, telithromycin – used to treat bacterial infections
- Itraconazole, ketoconazole, posaconazole, voriconazole – used to treat serious fungal infections
- Conivaptan – used to treat low blood sodium levels (hyponatraemia)

The following medicines can reduce the effects of avapritinib:
- Rifampicin – used to treat tuberculosis (TB) and some other bacterial infections
- Carbamazepine, phenytoin, fosphenytoin, primidone, phenobarbital – used to treat epilepsy
- St. John’s wort (Hypericum perforatum) – an herbal medicine used for depression
- Bosentan – used to treat high blood pressure
- Efavirenz and etravirine – used to treat HIV infections/AIDS
- Modafinil – used to treat sleep disorders
- Dabrafenib – used to treat certain cancers
- Nafcinill – used to treat certain bacterial infections
- Dexamethasone – used to reduce inflammation

This medicine may affect how well the following medicines work or increase their side effects:
- Alfentanil – used to control pain during operations and medical procedures
- Atazanavir – used to treat HIV infection/AIDS
- Midazolam – used for anaesthesia, sedation or to decrease anxiety
- Simvastatin – used to treat high cholesterol
- Sirolimus, tacrolimus – used to prevent organ transplant rejection

Ask your doctor or pharmacist for advice before taking any medicine.

**AYVAKYT with food and drink**
You should not drink grapefruit juice or eat grapefruit while on treatment with AYVAKYT.

**Pregnancy and breast-feeding**
If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before taking this medicine.

**Pregnancy**
This medicine is not recommended for use during pregnancy unless clearly necessary. Avoid becoming pregnant while being treated with this medicine as it may harm your unborn baby. Your doctor will discuss with you the potential risks of taking AYVAKYT during pregnancy.

Your doctor may check if you are pregnant before you start treatment with this medicine.

Women who are able to become pregnant and males with female partners who are able to become pregnant should use effective contraception during treatment and for at least 1 month after completion of treatment. Talk to your doctor about effective contraception methods that may be right for you.

**Breast-feeding**
Tell your doctor if you are breast-feeding or planning to breast-feed. It is not known if AYVAKYT passes into breast milk. You should not breast-feed during treatment with this medicine and for at least 2 weeks following the last dose. Talk to your doctor about the best way to feed your baby during this time.

**Driving and using machines**
AYVAKYT may cause symptoms that affect your ability to concentrate and react (see section 4). Therefore, AYVAKYT may influence the ability to drive and use machines. Take special care when driving a car or operating machines if you experience these side effects.

**AYVAKYT contains sodium**
This medicine contains less than 1 mmol sodium (23 mg) per tablet, that is to say essentially “sodium-free”.

3. **How to take AYVAKYT**

Always take this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.

**Which strength of AYVAKYT to use**
The recommended dose of AYVAKYT will depend on your illness – see below. AYVAKYT is available in different strength tablets. The strengths are 25 mg, 50 mg, 100 mg, 200 mg and 300 mg. Your doctor will advise you about the strength and number of tablets you should take:

**Treatment of AdvSM**
The recommended dose is 200 mg by mouth once daily.

If you get side effects, your doctor may change your dose, temporarily stop, or permanently stop treatment. Do not change your dose or stop taking AYVAKYT unless your doctor tells you to.

Swallow the AYVAKYT tablet(s) whole with a glass of water, on an empty stomach. Do not eat for at least 2 hours before and at least 1 hour after taking AYVAKYT.

If you vomit after taking a dose of AYVAKYT, do not take an extra dose. Take your next dose at your scheduled time.

**If you take more AYVAKYT than you should**
If you have accidentally taken too many tablets, talk to your doctor straight away. You may require medical attention.

**If you forget to take AYVAKYT**
If you miss a dose of AYVAKYT, take it as soon as you remember unless your next scheduled dose is due within 8 hours. Take the next dose at your regular time. Do not take two doses within 8 hours to make up for a forgotten dose.

4. **Possible side effects**

Like all medicines, this medicine can cause side effects, although not everybody gets them.

**Most serious side effects**
Some side effects may be serious. Tell your doctor straight away if you get any of the following (see also section 2.):
- severe headache, vision problems, severe sleepiness, severe weakness on one side of your body (signs of bleeding in your brain)
- memory loss, changes in memory, or confusion (signs of a cognitive effect)

**Other side effects may include**
Very common (may affect more than 1 in 10 people):
- altered taste
- memory loss, changes in memory, or confusion (cognitive effects)
- diarrhoea
- nausea, retching and vomiting
- change in hair colour
- swelling (e.g. feet, ankle, face, eye, joint)
- tiredness
- blood tests showing low blood platelets, often associated with easy bruising or bleeding
- blood tests showing decrease in red blood cells (anaemia) and white blood cells

**Common** (may affect up to 1 in 10 people):
- headache
- dizziness
- decreased sensation, numbness, tingling, or increased sensitivity to pain in arms and legs
- bleeding in your brain
- increased tear production
- nose bleed
- shortness of breath
- heartburn
- increased fluid in the abdomen
- dryness affecting eyes, lips, mouth and skin
- constipation, flatulence (gas)
- abdominal (belly) pain
- gastrointestinal bleed
- rash
- hair loss
- pain
- weight gain
- changes in the electric activity of the heart
- bruising
- blood tests showing increased stress on the liver and high levels of bilirubin, a substance produced by the liver

**Uncommon** (may affect up to 1 in 100 people):
- fluid around the heart
- red or itchy skin
- blood tests showing decreased kidney function

**Reporting of side effects**
If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

5. **How to store AYVAKYT**

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the bottle label and outer carton after "EXP". The expiry date refers to the last day of that month.

This medicine does not require any special storage conditions.

Do not use this medicine if you notice that the bottle is damaged or shows signs of tampering.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. **Contents of the pack and other information**

**What AYVAKYT contains**
- The active substance is avapritinib. Each film-coated tablet contains 50 mg avapritinib.
- The other ingredients are:
  - The tablet core contains: microcrystalline cellulose, copovidone, croscarmellose sodium and magnesium stearate (see section 2 “AYVAKYT contains sodium”).
  - The tablet coating contains: talc, macrogol 3350, poly(vinyl alcohol), and titanium dioxide (E171).

What AYVAKYT looks like and contents of the pack
AYVAKYT 50 mg film-coated tablets are round, white tablets of 6 mm diameter, debossed with “BLU” on one side and “50” on the other.

AYVAKYT is supplied in a bottle containing 30 film-coated tablets. Each carton contains one bottle.

Keep the desiccant canister in the bottle.

Marketing Authorisation Holder and Manufacturer
Blueprint Medicines (Netherlands) B.V.
Gustav Mahlerplein 2
1082 MA Amsterdam
Netherlands

For any information about this medicine, please contact the Marketing Authorization Holder:

Blueprint Medicines (Netherlands) B.V., NL
Tel/ Tél/ Tēl/ Tlf/ Τηλ/ Simi/ Puh: +31 85 064 4001
e-mail: MedinfoEurope@blueprintmedicines.com

This leaflet was last revised in

This medicine has been given ‘conditional approval’. This means that there is more evidence to come about this medicine. The European Medicines Agency will review new information on this medicine at least every year and this leaflet will be updated as necessary.

Other sources of information
Detailed information on this medicine is available on the European Medicines Agency web site: https://www.ema.europa.eu/en.
This medicine is subject to additional monitoring. This will allow quick identification of new safety information. You can help by reporting any side effects you may get. See the end of section 4 for how to report side effects.

Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.
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- If you have any further questions, ask your doctor or pharmacist.
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1. What AYVAKYT is and what it is used for

What AYVAKYT is
AYVAKYT is a medicine containing the active substance avapritinib.

What AYVAKYT is used for
AYVAKYT is used in adults to treat:
- a type of digestive tract cancer called gastrointestinal stromal tumour (GIST), when it cannot be treated with surgery (unresectable) or has spread to other parts of the body (metastatic) and that has a specific mutation (D842V) in the gene for platelet-derived growth factor receptor alpha (PDGFRA) protein kinase.
- aggressive systemic mastocytosis (ASM), systemic mastocytosis with associated haematological neoplasm (SM-AHN), or mast cell leukaemia (MCL), after at least one systemic therapy. These are disorders in which the body produces too many mast cells, a type of white blood cell. Symptoms are caused when too many mast cells enter various organs of your body, such as the liver, bone marrow or spleen. These mast cells also release substances such as histamine which cause various general symptoms that you may be experiencing as well as damage to involved organs.
ASM, SM-AHN and MCL are collectively referred to as advanced systemic mastocytosis (AdvSM).

How AYVAKYT works
AYVAKYT stops the activity of a group of proteins in the body called kinases. Mast cells in patients with AdvSM or cells that make up the cancer usually have changes (mutations) in the genes involved in making specific kinases associated with the growth and spread of these cells.
If you have any questions about how AYVAKYT works or why this medicine has been prescribed for you, please ask your doctor.

2. What you need to know before you take AYVAKYT

Do not take AYVAKYT:
- if you are allergic to avapritinib or any of the other ingredients of this medicine (listed in section 6).

Warnings and precautions
Talk to your doctor or pharmacist before taking AYVAKYT:
- if you have suffered a vascular aneurysm (bulging and weakening of a blood vessel wall) or bleeding in your brain in the last year.
- if you have low platelet counts.

Take special care with this medicine:
- You may develop symptoms such as severe headache, vision problems, severe sleepiness, or severe weakness on one side of your body (signs of bleeding in your brain). If these occur, contact your doctor immediately and temporarily stop treatment. For patients with AdvSM, your doctor will evaluate your platelet counts before you start treatment and monitor them as needed during your treatment with avapritinib.
- Treatment with this medicine may lead to a higher risk of bleeding. Avapritinib can cause bleeding in the digestive system such as stomach, rectum, or intestine. In patients with GIST, avapritinib can also cause bleeding in the liver, as well as bleeding of the tumour. Tell your doctor if you had or have any bleeding problems and if you are taking warfarin, phenprocoumon or another medicine that thins the blood to prevent blood clots. Before you start taking avapritinib your doctor may decide to do blood tests. Get medical help immediately, if you get the following symptoms: passing blood in the stools or passing black stools, stomach pain, coughing/vomiting up blood.
- You may also develop memory loss, changes in memory, or be confused (signs of a cognitive effect). Avapritinib can sometimes change how you think and how you remember information. Contact your doctor in case you experience these symptoms or in case a family member, caregiver or someone who knows you notices that you are getting forgetful or confused.
- During treatment with this medicine, tell your doctor straight away if you put on weight very quickly, develop swelling of your face or limbs, have difficulty breathing or become short of breath. This medicine may cause your body to retain water (severe fluid retention).
- Avapritinib may cause abnormality of your heart rhythm. Your doctor may conduct tests to evaluate these problems during your treatment with avapritinib. Tell your doctor if you feel dizzy, faint, or have abnormal heartbeats while taking this medicine.
- You may get severe stomach and bowel problems (diarrhoea, nausea and vomiting). Get medical help immediately if you experience these symptoms.
- You may become more sensitive to the sun while taking this medicine. It is important to cover sun-exposed areas of skin and use sunscreen with high sun protection factor (SPF).

While you are taking avapritinib, your doctor will ask you to have regular blood tests. You will also be weighed regularly.

For more information see section 4.

Children and adolescents
AYVAKYT has not been studied in children and adolescents under age 18. Do not give this medicine to children or adolescents under the age of 18 years.

Other medicines and AYVAKYT
Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines. AYVAKYT may affect the way other medicines work, and certain other medicines may affect how this medicine works.

Tell your doctor or pharmacist before taking AYVAKYT if you are taking any of the following medicines:

The following medicines can increase the effects of avapritinib and may increase its side effects:
- Boceprevir – used to treat hepatitis C
- Cobicistat, indinavir, lopinavir, nelfinavir, ritonavir, saquinavir – used to treat HIV infections/AIDS
- Clarithromycin, erythromycin, telithromycin – used to treat bacterial infections
- Itraconazole, ketoconazole, posaconazole, voriconazole – used to treat serious fungal infections
- Conivaptan – used to treat low blood sodium levels (hyponatraemia)

The following medicines can reduce the effects of avapritinib:
- Rifampicin – used to treat tuberculosis (TB) and some other bacterial infections
- Carbamazepine, phenytoin, fosphenytoin, primidone, phenobarbital – used to treat epilepsy
- St. John’s wort (*Hypericum perforatum*) – an herbal medicine used for depression
- Bosantan – used to treat high blood pressure
- Efavirenz and etravirine – used to treat HIV infections/AIDS
- Modafinil – used to treat sleep disorders
- Dabrafenib – used to treat certain cancers
- Nafcillin – used to treat certain bacterial infections
- Dexamethasone – used to reduce inflammation

This medicine may affect how well the following medicines work or increase their side effects:
- Alfentanil – used to control pain during operations and medical procedures
- Atazanavir – used to treat HIV infection/AIDS
- Midazolam – used for anaesthesia, sedation or to decrease anxiety
- Simvastatin – used to treat high cholesterol
- Sirolimus, tacrolimus – used to prevent organ transplant rejection

Ask your doctor or pharmacist for advice before taking any medicine.

**AYVAKYT with food and drink**
You should not drink grapefruit juice or eat grapefruit while on treatment with AYVAKYT.

**Pregnancy and breast-feeding**
If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before taking this medicine.

**Pregnancy**
This medicine is not recommended for use during pregnancy unless clearly necessary. Avoid becoming pregnant while being treated with this medicine as it may harm your unborn baby. Your doctor will discuss with you the potential risks of taking AYVAKYT during pregnancy.

Your doctor may check if you are pregnant before you start treatment with this medicine.

Women who are able to become pregnant and males with female partners who are able to become pregnant should use effective contraception during treatment and for at least 1 month after completion of treatment. Talk to your doctor about effective contraception methods that may be right for you.

**Breast-feeding**
Tell your doctor if you are breast-feeding or planning to breast-feed. It is not known if AYVAKYT passes into breast milk. You should not breast-feed during treatment with this medicine and for at least
2 weeks following the last dose. Talk to your doctor about the best way to feed your baby during this time.

Driving and using machines
AYVAKYT may cause symptoms that affect your ability to concentrate and react (see section 4). Therefore, AYVAKYT may influence the ability to drive and use machines. Take special care when driving a car or operating machines if you experience these side effects.

AYVAKYT contains sodium
This medicine contains less than 1 mmol sodium (23 mg) per tablet, that is to say essentially “sodium-free”.

3. How to take AYVAKYT
Always take this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.

Which strength of AYVAKYT to use
The recommended dose of AYVAKYT will depend on your illness – see below. AYVAKYT is available in different strength tablets. The strengths are 25 mg, 50 mg, 100 mg, 200 mg and 300 mg. Your doctor will advise you about the strength and number of tablets you should take:

Treatment of GIST
The recommended dose is 300 mg by mouth once daily.

Treatment of AdvSM
The recommended dose is 200 mg by mouth once daily.

If you get side effects, your doctor may change your dose, temporarily stop, or permanently stop treatment. Do not change your dose or stop taking AYVAKYT unless your doctor tells you to.

Swallow the AYVAKYT tablet(s) whole with a glass of water, on an empty stomach. Do not eat for at least 2 hours before and at least 1 hour after taking AYVAKYT.

If you vomit after taking a dose of AYVAKYT, do not take an extra dose. Take your next dose at your scheduled time.

If you take more AYVAKYT than you should
If you have accidentally taken too many tablets, talk to your doctor straight away. You may require medical attention.

If you forget to take AYVAKYT
If you miss a dose of AYVAKYT, take it as soon as you remember unless your next scheduled dose is due within 8 hours. Take the next dose at your regular time. Do not take two doses within 8 hours to make up for a forgotten dose.

4. Possible side effects
Like all medicines, this medicine can cause side effects, although not everybody gets them.

Most serious side effects
Some side effects may be serious. Tell your doctor straight away if you get any of the following (see also section 2.):
- severe headache, vision problems, severe sleepiness, severe weakness on one side of your body (signs of bleeding in your brain)
memory loss, changes in memory, or confusion (signs of a cognitive effect)

Other side effects in patients with GIST may include

Very common (may affect more than 1 in 10 people):
- decreased appetite
- memory loss, changes in memory, or confusion (cognitive effects)
- dizziness
- altered taste
- increased tear production
- abdominal (belly) pain
- nausea, retching and vomiting
- diarrhoea
- dryness affecting eyes, lips, mouth and skin
- heartburn
- change in hair colour
- rash
- swelling (e.g. feet, ankle, face, eye, joint)
- tiredness
- blood tests showing decrease in red blood cells (anaemia) and white blood cells
- blood tests showing increased stress on the liver and high levels of bilirubin, a substance produced by the liver

Common (may affect up to 1 in 10 people):
- red, or painful eye, blurry vision
- dehydration
- low albumin in the blood
- depression
- anxiety
- trouble falling asleep (insomnia)
- bleeding in your brain
- decreased sensation, numbness, tingling, or increased sensitivity to pain in arms and legs
- feeling weak or unusually sleepy
- speech disorder or hoarse voice
- movement disorder
- headache
- tremor
- bleeding in the eye
- increased sensitivity to light
- increased blood pressure
- shortness of breath
- stuffy nose
- cough including cough that produces mucus
- gastrointestinal bleed
- increased fluid in the abdomen
- constipation, flatulence (gas)
- difficulty swallowing
- painful mouth, lips or tongue, thrush
- increase in saliva production
- red or itchy skin
- skin discolouration
- hair loss
- pain
- muscle spasms
- blood in urine
- fever or feeling of general discomfort
- changes in the electric activity of the heart
- weight gain or loss
- blood tests showing low blood platelets, often associated with easy bruising or bleeding
- blood tests showing altered amounts of blood minerals
- blood tests showing decreased kidney function
- blood tests showing increased break down of muscle

**Uncommon** (may affect up to 1 in 100 people):
- bleeding in the tumour
- fluid around the heart
- bleeding in the liver

**Other side effects in patients with AdvSM may include**

**Very common** (may affect more than 1 in 10 people):
- altered taste
- memory loss, changes in memory, or confusion (cognitive effects)
- diarrhoea
- nausea, retching and vomiting
- change in hair colour
- swelling (e.g. feet, ankle, face, eye, joint)
- tiredness
- blood tests showing low blood platelets, often associated with easy bruising or bleeding
- blood tests showing decrease in red blood cells (anaemia) and white blood cells

**Common** (may affect up to 1 in 10 people):
- headache
- dizziness
- decreased sensation, numbness, tingling, or increased sensitivity to pain in arms and legs
- bleeding in your brain
- increased tear production
- nose bleed
- shortness of breath
- heartburn
- increased fluid in the abdomen
- dryness affecting eyes, lips, mouth and skin
- constipation, flatulence (gas)
- abdominal (belly) pain
- gastrointestinal bleed
- rash
- hair loss
- pain
- weight gain
- changes in the electric activity of the heart
- bruising
- blood tests showing increased stress on the liver and high levels of bilirubin, a substance produced by the liver

**Uncommon** (may affect up to 1 in 100 people):
- fluid around the heart
- red or itchy skin
- blood tests showing decreased kidney function

**Reporting of side effects**
If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.
5. **How to store AYVAKYT**

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the bottle label and outer carton after "EXP". The expiry date refers to the last day of that month.

This medicine does not require any special storage conditions.

Do not use this medicine if you notice that the bottle is damaged or shows signs of tampering.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. **Contents of the pack and other information**

**What AYVAKYT contains**
- The active substance is avapritinib. Each film-coated tablet contains 100 mg avapritinib.
- The other ingredients are:
  - The tablet core contains: microcrystalline cellulose, copovidone, croscarmellose sodium and magnesium stearate (see section 2 “AYVAKYT contains sodium”).
  - The tablet coating contains: talc, macrogol 3350, poly(vinyl alcohol), and titanium dioxide (E171).
  - The printing ink contains: Shellac glaze 45% (20% esterified) in ethanol, Brilliant blue FCF (E133), titanium dioxide (E171), black iron oxide (E172) and propylene glycol.

**What AYVAKYT looks like and contents of the pack**
AYVAKYT 100 mg film-coated tablets are round, white tablets of 9 mm diameter, printed with blue ink “BLU” on one side and “100” on the other.

AYVAKYT is supplied in a bottle containing 30 film-coated tablets. Each carton contains one bottle.

Keep the desiccant canister in the bottle.

**Marketing Authorisation Holder and Manufacturer**
Blueprint Medicines (Netherlands) B.V.
Gustav Mahlerplein 2
1082 MA Amsterdam
Netherlands

For any information about this medicine, please contact the Marketing Authorization Holder:

Blueprint Medicines (Netherlands) B.V., NL
Tel/ Tél/ Tел/ Tlf/ Τηλ/ Sími/ Puh: +31 85 064 4001
e-mail: MedinfoEurope@blueprintmedicines.com

**This leaflet was last revised in**

This medicine has been given ‘conditional approval’.
This means that there is more evidence to come about this medicine.
The European Medicines Agency will review new information on this medicine at least every year and this leaflet will be updated as necessary.

**Other sources of information**
Detailed information on this medicine is available on the European Medicines Agency web site: https://www.ema.europa.eu/en.
Package leaflet: Information for the patient

AYVAKYT 200 mg film-coated tablets
avapritinib

This medicine is subject to additional monitoring. This will allow quick identification of new safety information. You can help by reporting any side effects you may get. See the end of section 4 for how to report side effects.

Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.
- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

1. What AYVAKYT is and what it is used for
2. What you need to know before you take AYVAKYT
3. How to take AYVAKYT
4. Possible side effects
5. How to store AYVAKYT
6. Contents of the pack and other information

1. What AYVAKYT is and what it is used for

What AYVAKYT is
AYVAKYT is a medicine containing the active substance avapritinib.

What AYVAKYT is used for
AYVAKYT is used in adults to treat:
- a type of digestive tract cancer called gastrointestinal stromal tumour (GIST), when it cannot be treated with surgery (unresectable) or has spread to other parts of the body (metastatic) and that has a specific mutation (D842V) in the gene for platelet-derived growth factor receptor alpha (PDGFRA) protein kinase.
- aggressive systemic mastocytosis (ASM), systemic mastocytosis with associated haematological neoplasm (SM-AHN), or mast cell leukaemia (MCL), after at least one systemic therapy. These are disorders in which the body produces too many mast cells, a type of white blood cell. Symptoms are caused when too many mast cells enter various organs of your body, such as the liver, bone marrow or spleen. These mast cells also release substances such as histamine which cause various general symptoms that you may be experiencing as well as damage to involved organs.
ASM, SM-AHN and MCL are collectively referred to as advanced systemic mastocytosis (AdvSM).

How AYVAKYT works
AYVAKYT stops the activity of a group of proteins in the body called kinases. Mast cells in patients with AdvSM or cells that make up the cancer usually have changes (mutations) in the genes involved in making specific kinases associated with the growth and spread of these cells.
If you have any questions about how AYVAKYT works or why this medicine has been prescribed for you, please ask your doctor.

2. What you need to know before you take AYVAKYT

Do not take AYVAKYT:
- if you are allergic to avapritinib or any of the other ingredients of this medicine (listed in section 6).

Warnings and precautions
Talk to your doctor or pharmacist before taking AYVAKYT:
- if you have suffered a vascular aneurysm (bulging and weakening of a blood vessel wall) or bleeding in your brain in the last year.
- if you have low platelet counts.

Take special care with this medicine:
- You may develop symptoms such as severe headache, vision problems, severe sleepiness, or severe weakness on one side of your body (signs of bleeding in your brain). If these occur, contact your doctor immediately and temporarily stop treatment. For patients with AdvSM, your doctor will evaluate your platelet counts before you start treatment and monitor them as needed during your treatment with avapritinib.
- Treatment with this medicine may lead to a higher risk of bleeding. Avapritinib can cause bleeding in the digestive system such as stomach, rectum, or intestine. In patients with GIST, avapritinib can also cause bleeding in the liver, as well as bleeding of the tumour. Tell your doctor if you had or have any bleeding problems and if you are taking warfarin, phenprocoumon or another medicine that thins the blood to prevent blood clots. Before you start taking avapritinib your doctor may decide to do blood tests. Get medical help immediately, if you get the following symptoms: passing blood in the stools or passing black stools, stomach pain, coughing/vomiting up blood.
- You may also develop memory loss, changes in memory, or be confused (signs of a cognitive effect). Avapritinib can sometimes change how you think and how you remember information. Contact your doctor in case you experience these symptoms or in case a family member, caregiver or someone who knows you notices that you are getting forgetful or confused.
- During treatment with this medicine, tell your doctor straight away if you put on weight very quickly, develop swelling of your face or limbs, have difficulty breathing or become short of breath. This medicine may cause your body to retain water (severe fluid retention).
- Avapritinib may cause abnormality of your heart rhythm. Your doctor may conduct tests to evaluate these problems during your treatment with avapritinib. Tell your doctor if you feel dizzy, faint, or have abnormal heartbeats while taking this medicine.
- You may get severe stomach and bowel problems (diarrhoea, nausea and vomiting). Get medical help immediately if you experience these symptoms.
- You may become more sensitive to the sun while taking this medicine. It is important to cover sun-exposed areas of skin and use sunscreen with high sun protection factor (SPF).

While you are taking avapritinib, your doctor will ask you to have regular blood tests. You will also be weighed regularly.

For more information see section 4.

Children and adolescents
AYVAKYT has not been studied in children and adolescents under age 18. Do not give this medicine to children or adolescents under the age of 18 years.

Other medicines and AYVAKYT
Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines. AYVAKYT may affect the way other medicines work, and certain other medicines may affect how this medicine works.

**Tell your doctor or pharmacist before taking AYVAKYT if you are taking any of the following medicines:**

The following medicines can increase the effects of avapritinib and may increase its side effects:
- Boceprevir – used to treat hepatitis C
- Cobicistat, indinavir, lopinavir, nelfinavir, ritonavir, saquinavir – used to treat HIV infections/AIDS
- Clarithromycin, erythromycin, telithromycin – used to treat bacterial infections
- Itraconazole, ketoconazole, posaconazole, voriconazole – used to treat serious fungal infections
- Conivaptan – used to treat low blood sodium levels (hyponatraemia)

The following medicines can reduce the effects of avapritinib:
- Rifampicin – used to treat tuberculosis (TB) and some other bacterial infections
- Carbamazepine, phenytoin, fosphenytoin, primidone, phenobarbital – used to treat epilepsy
- St. John’s wort (*Hypericum perforatum*) – an herbal medicine used for depression
- Bosentan – used to treat high blood pressure
- Efavirenz and etravirine – used to treat HIV infections/AIDS
- Modafinil – used to treat sleep disorders
- Dabrafenib – used to treat certain cancers
- Nafcillin – used to treat certain bacterial infections
- Dexamethasone – used to reduce inflammation

This medicine may affect how well the following medicines work or increase their side effects:
- Alfentanil – used to control pain during operations and medical procedures
- Atazanavir – used to treat HIV infection/AIDS
- Midazolam – used for anaesthesia, sedation or to decrease anxiety
- Simvastatin – used to treat high cholesterol
- Sirolimus, tacrolimus – used to prevent organ transplant rejection

Ask your doctor or pharmacist for advice before taking any medicine.

**AYVAKYT with food and drink**
You should not drink grapefruit juice or eat grapefruit while on treatment with AYVAKYT.

**Pregnancy and breast-feeding**
If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before taking this medicine.

**Pregnancy**
This medicine is not recommended for use during pregnancy unless clearly necessary. Avoid becoming pregnant while being treated with this medicine as it may harm your unborn baby. Your doctor will discuss with you the potential risks of taking AYVAKYT during pregnancy.

Your doctor may check if you are pregnant before you start treatment with this medicine.

Women who are able to become pregnant and males with female partners who are able to become pregnant should use effective contraception during treatment and for at least 1 month after completion of treatment. Talk to your doctor about effective contraception methods that may be right for you.

**Breast-feeding**
Tell your doctor if you are breast-feeding or planning to breast-feed. It is not known if AYVAKYT passes into breast milk. You should not breast-feed during treatment with this medicine and for at least 1 month after completion of treatment.
2 weeks following the last dose. Talk to your doctor about the best way to feed your baby during this time.

**Driving and using machines**
AYVAKYT may cause symptoms that affect your ability to concentrate and react (see section 4). Therefore, AYVAKYT may influence the ability to drive and use machines. Take special care when driving a car or operating machines if you experience these side effects.

**AYVAKYT contains sodium**
This medicine contains less than 1 mmol sodium (23 mg) per tablet, that is to say essentially “sodium-free”.

3. **How to take AYVAKYT**
Always take this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.

**Which strength of AYVAKYT to use**
The recommended dose of AYVAKYT will depend on your illness – see below.
AYVAKYT is available in different strength tablets. The strengths are 25 mg, 50 mg, 100 mg, 200 mg and 300 mg. Your doctor will advise you about the strength and number of tablets you should take:

**Treatment of GIST**
The recommended dose is 300 mg by mouth once daily.

**Treatment of AdvSM**
The recommended dose is 200 mg by mouth once daily.

If you get side effects, your doctor may change your dose, temporarily stop, or permanently stop treatment. Do not change your dose or stop taking AYVAKYT unless your doctor tells you to.

Swallow the AYVAKYT tablet(s) whole with a glass of water, on an empty stomach. Do not eat for at least 2 hours before and at least 1 hour after taking AYVAKYT.

If you vomit after taking a dose of AYVAKYT, do not take an extra dose. Take your next dose at your scheduled time.

If you have accidentally taken too many tablets, talk to your doctor straight away. You may require medical attention.

If you miss a dose of AYVAKYT, take it as soon as you remember unless your next scheduled dose is due within 8 hours. Take the next dose at your regular time.

Do not take two doses within 8 hours to make up for a forgotten dose.

4. **Possible side effects**
Like all medicines, this medicine can cause side effects, although not everybody gets them.

**Most serious side effects**
Some side effects may be serious. Tell your doctor straight away if you get any of the following (see also section 2.):
- severe headache, vision problems, severe sleepiness, severe weakness on one side of your body (signs of bleeding in your brain)
- memory loss, changes in memory, or confusion (signs of a cognitive effect)

Other side effects in patients with GIST may include:

**Very common** (may affect more than 1 in 10 people):
- decreased appetite
- memory loss, changes in memory, or confusion (cognitive effects)
- dizziness
- altered taste
- increased tear production
- abdominal (belly) pain
- nausea, retching and vomiting
- diarrhoea
- dryness affecting eyes, lips, mouth and skin
- heartburn
- change in hair colour
- rash
- swelling (e.g. feet, ankle, face, eye, joint)
- tiredness
- blood tests showing decrease in red blood cells (anaemia) and white blood cells
- blood tests showing increased stress on the liver and high levels of bilirubin, a substance produced by the liver

**Common** (may affect up to 1 in 10 people):
- red, or painful eye, blurry vision
- dehydration
- low albumin in the blood
- depression
- anxiety
- trouble falling asleep (insomnia)
- bleeding in your brain
- decreased sensation, numbness, tingling, or increased sensitivity to pain in arms and legs
- feeling weak or unusually sleepy
- speech disorder or hoarse voice
- movement disorder
- headache
- tremor
- bleeding in the eye
- increased sensitivity to light
- increased blood pressure
- shortness of breath
- stuffy nose
- cough including cough that produces mucus
- gastrointestinal bleed
- increased fluid in the abdomen
- constipation, flatulence (gas)
- difficulty swallowing
- painful mouth, lips or tongue, thrush
- increase in saliva production
- red or itchy skin
- skin discolouration
- hair loss
- pain
- muscle spasms
- blood in urine
- fever or feeling of general discomfort
- changes in the electric activity of the heart
- weight gain or loss
- blood tests showing low blood platelets, often associated with easy bruising or bleeding
- blood tests showing altered amounts of blood minerals
- blood tests showing decreased kidney function
- blood tests showing increased break down of muscle

Uncommon (may affect up to 1 in 100 people):
- bleeding in the tumour
- fluid around the heart
- bleeding in the liver

Other side effects in patients with AdvSM may include

Very common (may affect more than 1 in 10 people):
- altered taste
- memory loss, changes in memory, or confusion (cognitive effects)
- diarrhoea
- nausea, retching and vomiting
- change in hair colour
- swelling (e.g. feet, ankle, face, eye, joint)
- tiredness
- blood tests showing low blood platelets, often associated with easy bruising or bleeding
- blood tests showing decrease in red blood cells (anaemia) and white blood cells

Common (may affect up to 1 in 10 people):
- headache
- dizziness
- decreased sensation, numbness, tingling, or increased sensitivity to pain in arms and legs
- bleeding in your brain
- increased tear production
- nose bleed
- shortness of breath
- heartburn
- increased fluid in the abdomen
- dryness affecting eyes, lips, mouth and skin
- constipation, flatulence (gas)
- abdominal (belly) pain
- gastrointestinal bleed
- rash
- hair loss
- pain
- weight gain
- changes in the electric activity of the heart
- bruising
- blood tests showing increased stress on the liver and high levels of bilirubin, a substance produced by the liver

Uncommon (may affect up to 1 in 100 people):
- fluid around the heart
- red or itchy skin
- blood tests showing decreased kidney function

Reporting of side effects
If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.
5. **How to store AYVAKYT**

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the bottle label and outer carton after "EXP". The expiry date refers to the last day of that month.

This medicine does not require any special storage conditions.

Do not use this medicine if you notice that the bottle is damaged or shows signs of tampering.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. **Contents of the pack and other information**

**What AYVAKYT contains**

- The active substance is avapritinib. Each film-coated tablet contains 200 mg avapritinib.
- The other ingredients are:
  - The tablet core contains: microcrystalline cellulose, copovidone, croscarmellose sodium and magnesium stearate (see section 2 “AYVAKYT contains sodium”).
  - The tablet coating contains: talc, macrogol 3350, poly(vinyl alcohol), and titanium dioxide (E171).
  - The printing ink contains: Shellac glaze 45% (20% esterified) in ethanol, Brilliant blue FCF (E133), titanium dioxide (E171), black iron oxide (E172) and propylene glycol.

**What AYVAKYT looks like and contents of the pack**

AYVAKYT 200 mg film-coated tablets are oval, white tablets of 16 mm in length and 8 mm in width, printed with blue ink “BLU” on one side and “200” on the other.

AYVAKYT is supplied in a bottle containing 30 film-coated tablets. Each carton contains one bottle.

Keep the desiccant canister in the bottle.

**Marketing Authorisation Holder and Manufacturer**

Blueprint Medicines (Netherlands) B.V.
Gustav Mahlerplein 2
1082 MA Amsterdam
Netherlands

For any information about this medicine, please contact the Marketing Authorization Holder:

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**This leaflet was last revised in**

This medicine has been given ‘conditional approval’. This means that there is more evidence to come about this medicine. The European Medicines Agency will review new information on this medicine at least every year and this leaflet will be updated as necessary.

**Other sources of information**
Detailed information on this medicine is available on the European Medicines Agency web site: https://www.ema.europa.eu/en.
This medicine is subject to additional monitoring. This will allow quick identification of new safety information. You can help by reporting any side effects you may get. See the end of section 4 for how to report side effects.

Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.
- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet
1. What AYVAKYT is and what it is used for
2. What you need to know before you take AYVAKYT
3. How to take AYVAKYT
4. Possible side effects
5. How to store AYVAKYT
6. Contents of the pack and other information

1. What AYVAKYT is and what it is used for

What AYVAKYT is
AYVAKYT is a medicine containing the active substance avapritinib.

What AYVAKYT is used for
AYVAKYT is used in adults to treat a type of digestive tract cancer called gastrointestinal stromal tumour (GIST), when it cannot be treated with surgery (unresectable) or has spread to other parts of the body (metastatic) and that has a specific mutation (D842V) in the gene for platelet-derived growth factor receptor alpha (PDGFRA) protein kinase.

How AYVAKYT works
AYVAKYT stops the activity of a group of proteins in the body called kinases. Cells that make up the cancer usually have changes (mutations) in the genes involved in making specific kinases associated with the growth and spread of these cells.

If you have any questions about how AYVAKYT works or why this medicine has been prescribed for you, please ask your doctor.

2. What you need to know before you take AYVAKYT

Do not take AYVAKYT:
- if you are allergic to avapritinib or any of the other ingredients of this medicine (listed in section 6).

Warnings and precautions
Talk to your doctor or pharmacist before taking AYVAKYT:

- **if you have suffered a vascular aneurysm** (bulging and weakening of a blood vessel wall) or **bleeding in your brain** in the last year.

Take special care with this medicine:

- You may develop symptoms such as **severe headache, vision problems, severe sleepiness, or severe weakness on one side of your body (signs of bleeding in your brain)**. If these occur, contact your doctor immediately and temporarily stop treatment.
- Treatment with this medicine may lead to a **higher risk of bleeding**. Avapritinib can cause bleeding in the digestive system such as stomach, rectum, or intestine. In patients with GIST, avapritinib can also cause bleeding in the liver, as well as bleeding of the tumour. Tell your doctor if you had or have any bleeding problems and if you are taking warfarin, phenprocoumon or another medicine that thins the blood to prevent blood clots. Before you start taking avapritinib your doctor may decide to do blood tests. Get medical help immediately, if you get the following symptoms: passing blood in the stools or passing black stools, stomach pain, coughing/vomiting up blood.
- You may also develop **memory loss, changes in memory, or be confused (signs of a cognitive effect)**. Avapritinib can sometimes change how you think and how you remember information. Contact your doctor in case you experience these symptoms or in case a family member, caregiver or someone who knows you notices that you are getting forgetful or confused.
- During treatment with this medicine, tell your doctor straight away if you **put on weight very quickly, develop swelling of your face or limbs, have difficulty breathing or become short of breath**. This medicine may cause your body to retain water (severe fluid retention).
- Avapritinib may cause **abnormality of your heart rhythm**. Your doctor may conduct tests to evaluate these problems during your treatment with avapritinib. Tell your doctor if you feel dizzy, faint, or have abnormal heartbeats while taking this medicine.
- You may get **severe stomach and bowel problems (diarrhoea, nausea and vomiting)**. Get medical help immediately if you experience these symptoms.
- You may become **more sensitive to the sun** while taking this medicine. It is important to cover sun-exposed areas of skin and use sunscreen with high sun protection factor (SPF).

While you are taking avapritinib, your doctor will ask you to have regular blood tests. You will also be weighed regularly.

For more information see section 4.

**Children and adolescents**

AYVAKYT has not been studied in children and adolescents under age 18. Do not give this medicine to children or adolescents under the age of 18 years.

**Other medicines and AYVAKYT**

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines. AYVAKYT may affect the way other medicines work, and certain other medicines may affect how this medicine works.

**Tell your doctor or pharmacist before taking AYVAKYT if you are taking any of the following medicines:**

The following medicines can increase the effects of avapritinib and may increase its side effects:
- Boceprevir – used to treat hepatitis C
- Cobicistat, indinavir, lopinavir, nelfinavir, ritonavir, saquinavir – used to treat HIV infections/AIDS
- Clarithromycin, erythromycin, telithromycin – used to treat bacterial infections
- Itraconazole, ketoconazole, posaconazole, voriconazole – used to treat serious fungal infections
- Conivaptan – used to treat low blood sodium levels (hyponatraemia)

The following medicines can reduce the effects of avapritinib:
- Rifampicin – used to treat tuberculosis (TB) and some other bacterial infections
- Carbamazepine, phenytoin, fosphenytoin, primidone, phenobarbital – used to treat epilepsy
- St. John’s wort (Hypericum perforatum) – an herbal medicine used for depression
- Bosentan – used to treat high blood pressure
- Efavirenz and etravirine – used to treat HIV infections/AIDS
- Modafinil – used to treat sleep disorders
- Dabrafenib – used to treat certain cancers
- Nafcillin – used to treat certain bacterial infections
- Dexamethasone – used to reduce inflammation

This medicine may affect how well the following medicines work or increase their side effects:
- Alfentanil – used to control pain during operations and medical procedures
- Atazanavir – used to treat HIV infection/AIDS
- Midazolam – used for anaesthesia, sedation or to decrease anxiety
- Simvastatin – used to treat high cholesterol
- Sirolimus, tacrolimus – used to prevent organ transplant rejection

Ask your doctor or pharmacist for advice before taking any medicine.

**AYVAKYT with food and drink**
You should not drink grapefruit juice or eat grapefruit while on treatment with AYVAKYT.

**Pregnancy and breast-feeding**
If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before taking this medicine.

**Pregnancy**
This medicine is not recommended for use during pregnancy unless clearly necessary. Avoid becoming pregnant while being treated with this medicine as it may harm your unborn baby. Your doctor will discuss with you the potential risks of taking AYVAKYT during pregnancy.

Your doctor may check if you are pregnant before you start treatment with this medicine.

Women who are able to become pregnant and males with female partners who are able to become pregnant should use effective contraception during treatment and for at least 1 month after completion of treatment. Talk to your doctor about effective contraception methods that may be right for you.

**Breast-feeding**
Tell your doctor if you are breast-feeding or planning to breast-feed. It is not known if AYVAKYT passes into breast milk. You should not breast-feed during treatment with this medicine and for at least 2 weeks following the last dose. Talk to your doctor about the best way to feed your baby during this time.

**Driving and using machines**
AYVAKYT may cause symptoms that affect your ability to concentrate and react (see section 4). Therefore, AYVAKYT may influence the ability to drive and use machines. Take special care when driving a car or operating machines if you experience these side effects.

**AYVAKYT contains sodium**
This medicine contains less than 1 mmol sodium (23 mg) per tablet, that is to say essentially “sodium-free”.

3. **How to take AYVAKYT**

Always take this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.
Which strength of AYVAKYT to use
The recommended dose of AYVAKYT will depend on your illness – see below.
AYVAKYT is available in different strength tablets. The strengths are 25 mg, 50 mg, 100 mg, 200 mg and 300 mg. Your doctor will advise you about the strength and number of tablets you should take:

Treatment of GIST
The recommended dose is 300 mg by mouth once daily.

If you get side effects, your doctor may change your dose, temporarily stop, or permanently stop treatment. Do not change your dose or stop taking AYVAKYT unless your doctor tells you to.

Swallow the AYVAKYT tablet(s) whole with a glass of water, on an empty stomach. Do not eat for at least 2 hours before and at least 1 hour after taking AYVAKYT.

If you vomit after taking a dose of AYVAKYT, do not take an extra dose. Take your next dose at your scheduled time.

If you take more AYVAKYT than you should
If you have accidentally taken too many tablets, talk to your doctor straight away. You may require medical attention.

If you forget to take AYVAKYT
If you miss a dose of AYVAKYT, take it as soon as you remember unless your next scheduled dose is due within 8 hours. Take the next dose at your regular time.
Do not take two doses within 8 hours to make up for a forgotten dose.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Most serious side effects
Some side effects may be serious. Tell your doctor straight away if you get any of the following (see also section 2.):
- severe headache, vision problems, severe sleepiness, severe weakness on one side of your body (signs of bleeding in your brain)
- memory loss, changes in memory, or confusion (signs of a cognitive effect)

Other side effects may include
Very common (may affect more than 1 in 10 people):
- decreased appetite
- memory loss, changes in memory, or confusion (cognitive effects)
- dizziness
- altered taste
- increased tear production
- abdominal (belly) pain
- nausea, retching and vomiting
- diarrhoea
- dryness affecting eyes, lips, mouth and skin
- heartburn
- change in hair colour
- rash
- swelling (e.g. feet, ankle, face, eye, joint)
- tiredness
- blood tests showing decrease in red blood cells (anaemia) and white blood cells
- blood tests showing increased stress on the liver and high levels of bilirubin, a substance produced by the liver

**Common** (may affect up to 1 in 10 people):
- red, or painful eye, blurry vision
- dehydration
- low albumin in the blood
- depression
- anxiety
- trouble falling asleep (insomnia)
- bleeding in your brain
- decreased sensation, numbness, tingling, or increased sensitivity to pain in arms and legs
- feeling weak or unusually sleepy
- speech disorder or hoarse voice
- movement disorder
- headache
- tremor
- bleeding in the eye
- increased sensitivity to light
- increased blood pressure
- shortness of breath
- stuffy nose
- cough including cough that produces mucus
- gastrointestinal bleed
- increased fluid in the abdomen
- constipation, flatulence (gas)
- difficulty swallowing
- painful mouth, lips or tongue, thrush
- increase in saliva production
- red or itchy skin
- skin discolouration
- hair loss
- pain
- muscle spasms
- blood in urine
- fever or feeling of general discomfort
- changes in the electric activity of the heart
- weight gain or loss
- blood tests showing low blood platelets, often associated with easy bruising or bleeding
- blood tests showing altered amounts of blood minerals
- blood tests showing decreased kidney function
- blood tests showing increased break down of muscle

**Uncommon** (may affect up to 1 in 100 people):
- bleeding in the tumour
- fluid around the heart
- bleeding in the liver

**Reporting of side effects**
If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

5. **How to store AYVAKYT**
Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the bottle label and outer carton after "EXP". The expiry date refers to the last day of that month.

This medicine does not require any special storage conditions.

Do not use this medicine if you notice that the bottle is damaged or shows signs of tampering.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What AYVAKYT contains
- The active substance is avapritinib. Each film-coated tablet contains 300 mg avapritinib.
- The other ingredients are:
  - The tablet core contains: microcrystalline cellulose, copovidone, croscarmellose sodium and magnesium stearate (see section 2 “AYVAKYT contains sodium”).
  - The tablet coating contains: talc, macrogol 3350, poly(vinyl alcohol), and titanium dioxide (E171).
  - The printing ink contains: Shellac glaze 45% (20% esterified) in ethanol, Brilliant blue FCF (E133), titanium dioxide (E171), black iron oxide (E172) and propylene glycol.

What AYVAKYT looks like and contents of the pack
AYVAKYT 300 mg film-coated tablets are oval, white tablets of 18 mm in length and 9 mm in width, printed with blue ink “BLU” on one side and “300” on the other.

AYVAKYT is supplied in a bottle containing 30 film-coated tablets. Each carton contains one bottle.

Keep the desiccant canister in the bottle.

Marketing Authorisation Holder and Manufacturer
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For any information about this medicine, please contact the Marketing Authorization Holder:

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This leaflet was last revised in

This medicine has been given ‘conditional approval’.
This means that there is more evidence to come about this medicine.
The European Medicines Agency will review new information on this medicine at least every year and this leaflet will be updated as necessary.

Other sources of information
Detailed information on this medicine is available on the European Medicines Agency web site:
ANNEX IV

CONCLUSIONS ON THE REQUEST FOR ONE-YEAR MARKETING PROTECTION PRESENTED BY THE EUROPEAN MEDICINES AGENCY
Conclusions presented by the European Medicines Agency on:

- one-year marketing protection

The CHMP reviewed the data submitted by the Marketing Authorisation Holder, taking into account the provisions of Article 14(11) of Regulation (EC) No 726/2004, and considers that the new therapeutic indication brings significant clinical benefit in comparison with existing therapies as further explained in the European Public Assessment Report.