

ANNEX I
SUMMARY OF PRODUCT CHARACTERISTICS



1. NAME OF THE MEDICINAL PRODUCT

Nilemdo 180 mg film-coated tablets

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each film-coated tablet contains 180 mg of bempedoic acid.

Excipient(s) with known effect

Each 180 mg film-coated tablet contains 28.5 mg of lactose.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Film-coated tablet.

White to off-white, oval, film-coated tablet of approximately 13.97 mm × 6.60 mm × 4.80 mm debossed with “180” on one side and “ESP” on the other side.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Nilemdo is indicated in adults with primary hypercholesterolaemia (heterozygous familial and non-familial) or mixed dyslipidaemia, as an adjunct to diet:

- in combination with a statin or statin with other lipid-lowering therapies in patients unable to reach LDL-C goals with the maximum tolerated dose of a statin (see sections 4.2, 4.3, and 4.4) or,
- alone or in combination with other lipid-lowering therapies in patients who are statin-intolerant, or for whom a statin is contraindicated.

4.2 Posology and method of administration

Posology

The recommended dose of Nilemdo is one film-coated tablet of 180 mg taken once daily.

Concomitant simvastatin therapy

When Nilemdo is coadministered with simvastatin, simvastatin dose should be limited to 20 mg daily (or 40 mg daily for patients with severe hypercholesterolaemia and high risk for cardiovascular complications, who have not achieved their treatment goals on lower doses and when the benefits are expected to outweigh the potential risks) (see sections 4.4 and 4.5).

Special populations

Elderly patients

No dose adjustment is necessary in elderly patients (see section 5.2).

Patients with renal impairment

No dose adjustment is necessary in patients with mild or moderate renal impairment. There are limited data available in patients with severe renal impairment (defined as estimated glomerular filtration rate [eGFR] < 30 mL/min/1.73 m²), and patients with end-stage renal disease (ESRD) on dialysis have not been studied. Additional monitoring for adverse reactions may be warranted in these patients when Nilemdo is administered (see section 4.4).

Patients with hepatic impairment

No dose adjustment is necessary in patients with mild or moderate hepatic impairment (Child-Pugh A or B). No data are available in patients with severe hepatic impairment (Child-Pugh C). Periodic liver function tests should be considered for patients with severe hepatic impairment (see section 4.4).

Paediatric population

The safety and efficacy of Nilemdo in children aged less than 18 years have not yet been established. No data are available.

Method of administration

Each film-coated tablet should be taken orally with or without food. Tablet should be swallowed whole.

4.3 Contraindications

- Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.
- Pregnancy (see section 4.6).
- Breast-feeding (see section 4.6).
- Concomitant use with simvastatin > 40 mg daily (see sections 4.2, 4.4, and 4.5).

4.4 Special warnings and precautions for use

Potential risk of myopathy with concomitant use of statins

Bempedoic acid increases plasma concentrations of statins (see section 4.5). Patients receiving Nilemdo as adjunctive therapy to a statin should be monitored for adverse reactions that are associated with the use of high doses of statins. Statins occasionally cause myopathy. In rare cases, myopathy may take the form of rhabdomyolysis with or without acute renal failure secondary to myoglobinuria, and can lead to fatality. All patients receiving Nilemdo in addition to a statin should be advised of the potential increased risk of myopathy and told to report promptly any unexplained muscle pain, tenderness, or weakness. If such symptoms occur while a patient is receiving treatment with Nilemdo and a statin, a lower maximum dose of the same statin or an alternative statin, or discontinuation of Nilemdo and initiation of an alternative lipid-lowering therapy should be considered under close monitoring of lipid levels and adverse reactions. If myopathy is confirmed by a creatine phosphokinase (CPK) level > 10× upper limit of normal (ULN), Nilemdo and any statin that the patient is taking concomitantly should be immediately discontinued.

Myositis with a CPK level > 10× ULN was rarely reported with bempedoic acid and background simvastatin 40 mg therapy. Doses of simvastatin > 40 mg should not be used with Nilemdo (see sections 4.2 and 4.3).

Increased serum uric acid

Bempedoic acid may raise the serum uric acid level due to inhibition of renal tubular OAT2 and may cause or exacerbate hyperuricaemia and precipitate gout in patients with a medical history of gout or predisposed to gout (see section 4.8). Treatment with Nilemdo should be discontinued if hyperuricaemia accompanied with symptoms of gout appear.

Elevated liver enzymes

In clinical trials, elevations of $> 3\times$ ULN in the liver enzymes alanine aminotransferase (ALT) and aspartate aminotransferase (AST) have been reported with bempedoic acid. These elevations have been asymptomatic and not associated with elevations $\geq 2\times$ ULN in bilirubin or with cholestasis and have returned to baseline with continued treatment or after discontinuation of therapy. Liver function tests should be performed at initiation of therapy. Treatment with Nilemdo should be discontinued if an increase in transaminases of $> 3\times$ ULN persists (see section 4.8).

Renal impairment

There is limited experience with bempedoic acid in patients with severe renal impairment (defined as $eGFR < 30$ mL/min/1.73 m²), and patients with ESRD on dialysis have not been studied (see section 5.2). Additional monitoring for adverse reactions may be warranted in these patients when Nilemdo is administered.

Hepatic impairment

Patients with severe hepatic impairment (Child-Pugh C) have not been studied (see section 5.2). Periodic liver function tests should be considered for patients with severe hepatic impairment.

Contraception

Women of childbearing potential must use effective contraception during treatment. Patients should be advised to stop taking Nilemdo before stopping contraceptive measures if they plan to become pregnant.

Excipients

Nilemdo contains lactose. Patients with rare hereditary problems of galactose intolerance, total lactase deficiency, or glucose-galactose malabsorption should not take this medicinal product.

This medicine contains less than 1 mmol sodium (23 mg) per 180 mg film-coated tablet (daily dose), that is to say essentially 'sodium-free'.

4.5 Interaction with other medicinal products and other forms of interaction

Effects of other medicinal products on bempedoic acid

Transporter-mediated drug interactions

In vitro drug interaction studies suggest bempedoic acid, as well as its active metabolite and glucuronide form, are not substrates of commonly characterised drug transporters with the exception of bempedoic acid glucuronide, which is an OAT3 substrate.

Probenecid

Probenecid, an inhibitor of glucuronide conjugation, was studied to evaluate the potential effect of these inhibitors on the pharmacokinetics of bempedoic acid. Administration of bempedoic acid 180 mg with steady-state probenecid resulted in a 1.7-fold increase in bempedoic acid area under the curve (AUC) and a 1.9-fold increase in bempedoic acid active metabolite (ESP15228) AUC. These elevations are not clinically meaningful and do not impact dosing recommendations.

Effects of bempedoic acid on other medicinal products

Statins

The pharmacokinetic interactions between bempedoic acid 180 mg and simvastatin 40 mg, atorvastatin 80 mg, pravastatin 80 mg, and rosuvastatin 40 mg were evaluated in clinical trials. Administration of a single dose of simvastatin 40 mg with steady-state bempedoic acid 180 mg

resulted in a 2-fold increase in simvastatin acid exposure. Elevations of 1.4-fold to 1.5-fold in AUC of atorvastatin, pravastatin, and rosuvastatin (administered as single doses) and/or their major metabolites were observed when coadministered with bempedoic acid 180 mg. Higher elevations have been observed when these statins were coadministered with a supratherapeutic 240 mg dose of bempedoic acid (see section 4.4).

Transporter-mediated drug interactions

Bempedoic acid and its glucuronide weakly inhibit OATP1B1 and OATP1B3 at clinically relevant concentrations. Coadministration of bempedoic acid with medicinal products that are substrates of OATP1B1 or OATP1B3 (i.e., bosentan, fimasartan, asunaprevir, glecaprevir, grazoprevir, voxilaprevir, and statins such as atorvastatin, pravastatin, fluvastatin, pitavastatin, rosuvastatin, and simvastatin [see section 4.4]) may result in increased plasma concentrations of these medicinal products.

Bempedoic acid inhibits OAT2 *in vitro*, which may be the mechanism responsible for minor elevations in serum creatinine and uric acid (see section 4.8). Inhibition of OAT2 by bempedoic acid may also potentially increase plasma concentrations of medicinal products that are substrates of OAT2. Bempedoic acid may also weakly inhibit OAT3 at clinically relevant concentrations.

Ezetimibe

Total ezetimibe (ezetimibe and its glucuronide form) and ezetimibe glucuronide AUC and C_{max} increased approximately 1.6- and 1.8-fold, respectively, when a single dose of ezetimibe was taken with steady-state bempedoic acid. This increase is likely due to inhibition of OATP1B1 by bempedoic acid, which results in decreased hepatic uptake and subsequently decreased elimination of ezetimibe-glucuronide. Increases in AUC and C_{max} for ezetimibe were less than 20%. These elevations are not clinically meaningful and do not impact dosing recommendations.

Other interactions studied

Bempedoic acid had no effect on the pharmacokinetics or pharmacodynamics of metformin or the pharmacokinetics of oral contraceptive norethindrone/ethinyl estradiol.

4.6 Fertility, pregnancy and lactation

Pregnancy

Nilemdo is contraindicated during pregnancy (see section 4.3).

There are no or limited amount of data from the use of bempedoic acid in pregnant women. Studies in animals with bempedoic acid have shown reproductive toxicity (see section 5.3).

Because bempedoic acid decreases cholesterol synthesis and possibly the synthesis of other cholesterol derivatives needed for normal foetal development, Nilemdo may cause foetal harm when administered to pregnant women. Nilemdo should be discontinued prior to conception or as soon as pregnancy is recognized (see section 4.3).

Women of childbearing potential

Women of childbearing potential should use effective contraception during treatment (see section 4.4).

Breast-feeding

It is unknown whether bempedoic acid/metabolites are excreted in human milk. Because of the potential for serious adverse reactions, women taking Nilemdo should not breast-feed their infants. Nilemdo is contraindicated during breast-feeding (see section 4.3).

Fertility

No data on the effect of Nilemdo on human fertility are available. Based on animal studies, no effect on reproduction or fertility is expected with Nilemdo (see section 5.3).

4.7 Effects on ability to drive and use machines

Nilemdo has no or negligible influence on the ability to drive and use machines.

4.8 Undesirable effects

Summary of the safety profile

The safety profile of bempedoic acid has been studied in 4 controlled phase 3 clinical studies (N=3,621) including patients with hypercholesterolemia on maximum tolerated statin dose (2 studies; n=3008) and patients on no or low dose statins (2 studies; n=613). The most commonly reported adverse reactions with bempedoic acid during pivotal trials were hyperuricaemia (3.8%), pain in extremity (3.1%), and anaemia (2.5%). More patients on bempedoic acid compared to placebo discontinued treatment due to muscle spasms (0.7% versus 0.3%), diarrhoea (0.5% versus <0.1%), pain in extremity (0.4% versus 0), and nausea (0.3% versus 0.2%), although differences between bempedoic acid and placebo were not significant.

Tabulated list of adverse reactions

Adverse reactions reported with bempedoic acid are displayed by system organ class and frequency in table 1.

Frequencies are defined as: very common ($\geq 1/10$); common ($\geq 1/100$ to $< 1/10$); uncommon ($\geq 1/1,000$ to $< 1/100$); rare ($\geq 1/10,000$ to $< 1/1,000$); very rare ($< 1/10,000$); and not known (cannot be estimated from the available data).

Table 1: Adverse reactions

System organ class (SOC)	Adverse reactions	Frequency categories
Blood and lymphatic system disorders	Anaemia	Common
	Haemoglobin decreased	Uncommon
Metabolism and nutrition disorders	Gout	Common
	Hyperuricaemia ^a	Common
Hepatobiliary disorders	Aspartate aminotransferase increased	Common
	Alanine aminotransferase increased	Uncommon
	Liver function test increased	Uncommon
Musculoskeletal and connective tissue disorders	Pain in extremity	Common
Renal and urinary disorders	Blood creatinine increased	Uncommon
	Blood urea increased	Uncommon
	Glomerular filtration rate decreased	Uncommon

a. Hyperuricaemia includes hyperuricaemia and blood uric acid increased

Description of selected adverse reactions

Hepatic enzyme elevations

Increases in serum transaminases (AST and/or ALT) have been reported with bempedoic acid. In controlled clinical studies, the incidence of elevations ($\geq 3 \times$ ULN) in hepatic transaminase levels was 0.7% for patients treated with bempedoic acid and 0.3% for placebo. These elevations in transaminases were not associated with other evidence of liver dysfunction (see section 4.4).

Increased serum uric acid

Increases in serum uric acid were observed in clinical trials with bempedoic acid possibly related to inhibition of renal tubular OAT2 (see section 4.5). In the pooled placebo-controlled trials, a mean increase of 0.8 mg/dL (47.6 micromole/L) in uric acid compared to baseline was observed with bempedoic acid at week 12. The elevations in serum uric acid usually occurred within the first 4 weeks of treatment and returned to baseline following discontinuation of treatment. Gout was reported in 1.4% of patients treated with bempedoic acid and 0.4% of patients treated with placebo (see section 4.4). In both treatment groups, patients who reported gout were more likely to have a medical history of gout and/or baseline levels of uric acid above the ULN.

Effects on serum creatinine and blood urea nitrogen

Bempedoic acid has been shown to increase serum creatinine and blood urea nitrogen (BUN). In the pooled placebo-controlled trials, a mean increase of 0.05 mg/dL (4.4 micromole/L) in serum creatinine and a mean increase of 1.7 mg/dL (0.61 mmol/L) in BUN compared to baseline was observed with bempedoic acid at week 12. The elevations in serum creatinine and BUN usually occurred within the first 4 weeks of treatment, remained stable, and returned to baseline following discontinuation of treatment.

The observed elevations in serum creatinine may be associated with bempedoic acid inhibition of OAT2-dependent renal tubular secretion of creatinine (see section 4.5), representing a drug-endogenous substrate interaction and does not appear to indicate worsening renal function. This effect should be considered when interpreting changes in estimated creatinine clearance in patients on Nilemdo therapy, particularly in patients with medical conditions or receiving medicinal products that require monitoring of estimated creatinine clearance.

Decreased haemoglobin

Decreases in haemoglobin were observed in clinical trials with bempedoic acid. In the pooled placebo-controlled trials, a decrease in haemoglobin from baseline of ≥ 20 g/L and $<$ lower limit of normal (LLN) was observed in 4.6% of patients in the bempedoic acid group compared with 1.9% of patients on placebo. Greater than 50 g/L and $<$ LLN decreases in haemoglobin were reported at similar rates in bempedoic acid and placebo groups (0.2% versus 0.2%, respectively). The decreases in haemoglobin usually occurred within the first 4 weeks of treatment and returned to baseline following discontinuation of treatment. Among patients who had normal haemoglobin values at baseline, 1.4% in the bempedoic acid group and 0.4% in the placebo group experienced haemoglobin values below LLN while on treatment. Anaemia was reported in 2.5% of patients treated with bempedoic acid and 1.6% of patients treated with placebo.

Elderly population

Of the 3,621 patients treated with bempedoic acid in the placebo-controlled studies, 2,098 (58%) were $>$ 65 years old. No overall difference in safety was observed between elderly and the younger population.

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

Doses up to 240 mg/day (1.3 times the approved recommended dose) have been administered in clinical trials with no evidence of dose limiting toxicity.

No adverse events were observed in animal studies at exposures up to 14-fold higher than those in patients treated with bempedoic acid at 180 mg once daily.

There is no specific treatment for a Nilemdo overdose. In the event of an overdose, the patient should be treated symptomatically, and supportive measures instituted as required.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Lipid modifying agents, other lipid modifying agents, ATC code: C10AX15

Mechanism of action

Bempedoic acid is an adenosine triphosphate citrate lyase (ACL) inhibitor that lowers low-density lipoprotein cholesterol (LDL-C) by inhibition of cholesterol synthesis in the liver. ACL is an enzyme upstream of 3-hydroxy-3-methyl-glutaryl-coenzyme A (HMG-CoA) reductase in the cholesterol biosynthesis pathway. Bempedoic acid requires coenzyme A (CoA) activation by very long-chain acyl-CoA synthetase 1 (ACSVL1) to ETC-1002-CoA. ACSVL1 is expressed primarily in the liver and not in skeletal muscle. Inhibition of ACL by ETC-1002-CoA results in decreased cholesterol synthesis in the liver and lowers LDL-C in blood via upregulation of low-density lipoprotein receptors. Additionally, inhibition of ACL by ETC-1002-CoA results in concomitant suppression of hepatic fatty acid biosynthesis.

Pharmacodynamic effects

Administration of bempedoic acid alone and in combination with other lipid modifying medicinal products decreases LDL-C, non-high density lipoprotein cholesterol (non-HDL-C), apolipoprotein B (apo B), and total cholesterol (TC) in patients with hypercholesterolaemia or mixed dyslipidaemia.

Because patients with diabetes are at elevated risk for atherosclerotic cardiovascular disease, the clinical trials of bempedoic acid included patients with diabetes mellitus. Among the subset of patients with diabetes, lower levels of HbA1c were observed as compared to placebo (on average 0.2%). In patients without diabetes, no difference in HbA1c was observed between bempedoic acid and placebo and there were no differences in the rates of hypoglycaemia.

Cardiac electrophysiology

At a dose of 240 mg (1.3 times the approved recommended dose), bempedoic acid does not prolong the QT interval to any clinically relevant extent.

Clinical efficacy and safety

The effect of Nilemdo on cardiovascular morbidity and mortality has not yet been determined.

The efficacy of Nilemdo was investigated in four multi-centre, randomised, double-blind, placebo-controlled trials involving 3,623 adult patients with hypercholesterolaemia or mixed dyslipidaemia, with 2,425 patients randomised to bempedoic acid. All patients received bempedoic acid 180 mg or placebo orally once daily. In two trials, patients were taking background lipid-modifying therapies consisting of a maximum tolerated dose of statin, with or without other lipid-modifying therapies. Two trials were conducted in patients with documented statin intolerance. The primary efficacy endpoint in all Phase 3 trials was the mean percent reduction from baseline in LDL-C at week 12 as compared with placebo.

Combination therapy with statins

Study 1002-047 was a multi-centre, randomised, double-blind, placebo-controlled, 52-week trial in patients with hypercholesterolaemia or mixed dyslipidaemia. Efficacy of Nilemdo was evaluated at week 12. The trial included 779 patients randomised 2:1 to receive either bempedoic acid (n=522) or placebo (n=257) as add-on to a maximum tolerated lipid lowering therapy. Maximum tolerated lipid lowering therapy was defined as a maximum tolerated statin dose (including statin regimens other than daily dosing and no to very low doses) alone or in combination with other lipid-lowering therapies. Patients on simvastatin 40 mg/day or higher were excluded from the trial.

Overall, the mean age at baseline was 64 years (range: 28 to 91 years), 51% were ≥ 65 years old, 36% women, 94% White, 5% were Black, and 1% Asian. The mean baseline LDL-C was 120.4 mg/dL (3.1 mmol/L). At the time of randomisation, 91% of patients were receiving statin therapy and 53% were receiving high-intensity statin therapy. Bempedoic acid significantly reduced LDL-C from baseline to week 12 compared with placebo ($p < 0.001$). Bempedoic acid also significantly reduced non-HDL-C, apo B, and TC.

Study 1002-040 was a multi-centre, randomised, double-blind, placebo-controlled 52-week trial evaluating safety and efficacy of bempedoic acid in patients with hypercholesterolaemia or mixed dyslipidaemia. Efficacy of Nilemdo was evaluated at week 12. The trial included 2,230 patients randomised 2:1 to receive either bempedoic acid (n=1,488) or placebo (n=742) as add-on to a maximum tolerated lipid lowering therapy. Maximum tolerated lipid lowering therapy was defined as a maximum tolerated statin dose (including statin regimens other than daily dosing and very low doses) alone or in combination with other lipid lowering therapies. Patients on simvastatin 40 mg per day or higher and patients on PCSK9 inhibitors were excluded from the trial.

Overall, the mean age at baseline was 66 years (range: 24 to 88 years), 61% were ≥ 65 years old, 27% women, 96% White, 3% were Black, and 1% Asian. The mean baseline LDL-C was 103.2 mg/dL (2.7 mmol/L). At the time of randomisation, all patients were receiving statin therapy and 50% were receiving high-intensity statin therapy. Bempedoic acid significantly reduced LDL-C from baseline to week 12 compared with placebo ($p < 0.001$). A significantly higher proportion of patients achieved an LDL-C of < 70 mg/dL (< 1.81 mmol/L) in the bempedoic acid group as compared with placebo at week 12 (32% versus 9%, $p < 0.001$), bempedoic acid also significantly reduced non-HDL-C, apo B, and TC (see table 2).

Table 2. Treatment effects of Nilemdo compared with placebo in patients with primary hypercholesterolaemia or mixed dyslipidaemia - mean percent change from baseline to week 12

	Study 1002-047 (N=779)		Study 1002-040 (N=2,230)	
	Nilemdo n=522	Placebo n=257	Nilemdo n=1,488	Placebo n=742
LDL-C ^a , n	498	253	1,488	742
LS Mean	-15.1	2.4	-16.5	1.6
non-HDL-C ^a , n	498	253	1,488	742
LS Mean	-10.8	2.3	-11.9	1.5
apo B ^a , n	479	245	1,485	736
LS Mean	-9.3	3.7	-8.6	3.3
TC ^a , n	499	253	1,488	742
LS Mean	-9.9	1.3	-10.3	0.8

apo B=apolipoprotein B; HDL-C=high-density lipoprotein cholesterol; LDL C=low-density lipoprotein cholesterol; LS=least squares; TC=total cholesterol.

Background statin (1002-047): atorvastatin, simvastatin, rosuvastatin, pravastatin, fluvastatin, pitavastatin, and lovastatin.

Background statin (1002-040): atorvastatin, simvastatin, pravastatin.

a. Percent change from baseline was analysed using analysis of covariance (ANCOVA), with treatment and randomisation strata as factors and baseline lipid parameter as a covariate.

Statin intolerant patients

Study 1002-048 was a multi-centre, randomised, double-blind, placebo-controlled 12-week trial evaluating the efficacy of Nilemdo versus placebo in lowering LDL-C when added to ezetimibe in patients with elevated LDL-C who had a history of statin intolerance and were unable to tolerate more than the lowest approved starting dose of a statin. The trial included 269 patients randomised 2:1 to receive either bempedoic acid (n=181) or placebo (n=88) as add-on to ezetimibe 10 mg daily for 12 weeks.

Overall, the mean age at baseline was 64 years (range: 30 to 86 years), 55% were ≥ 65 years old, 61% were women, 89% White, 8% were Black, 2% Asian, and 1% other. The mean baseline LDL-C was 127.6 mg/dL (3.3 mmol/L). At the time of randomisation, 33% of patients on bempedoic acid versus 28% on placebo were receiving statin therapy at less than or equal to lowest approved doses. Bempedoic acid significantly reduced LDL-C from baseline to week 12 compared with placebo ($p < 0.001$). Bempedoic acid also significantly reduced non-HDL-C, apo B, and TC (see table 3).

Study 1002-046 was a multi-centre, randomised, double-blind, placebo-controlled 24-week trial evaluating the efficacy of Nilemdo versus placebo in patients with elevated LDL-C who were statin-intolerant or unable to tolerate two or more statins, one at the lowest dose. Patients able to tolerate a dose that was less than the approved starting dose of a statin were allowed to stay on that dose during the study. Efficacy of bempedoic acid was evaluated at week 12. The trial included 345 patients randomised 2:1 to receive either bempedoic acid (n=234) or placebo (n=111) for 24 weeks. At the time of randomisation, 8% of patients on bempedoic acid versus 10% on placebo were receiving statin therapy at less than the lowest approved doses and 36% of patients on bempedoic acid versus 30% of patients on placebo were on other nonstatin lipid-modifying therapies.

Overall, the mean age at baseline was 65 years (range: 26 to 88 years), 58% were ≥ 65 years old, 56% were women, 89% White, 8% were Black, 2% Asian, and 1% other. The mean baseline LDL-C was 157.6 mg/dL (4.1 mmol/L).

Bempedoic acid significantly reduced LDL-C from baseline to week 12 compared with placebo ($p < 0.001$). Bempedoic acid also significantly reduced non-HDL-C, apo B, and TC (see table 3).

Treatment in the absence of lipid-modifying therapies

In Study 1002-046, 133 patients in the bempedoic acid group and 67 patients in the placebo group were on no background lipid-modifying therapies. Bempedoic acid significantly reduced LDL-C from baseline to week 12 compared with placebo in this subgroup. The difference between bempedoic acid and placebo in mean percent change in LDL-C from baseline to week 12 was -22.1% (CI: -26.8%, -17.4%; $p < 0.001$).

Table 3. Treatment effects of Nilemdo compared with placebo in statin intolerant patients - mean percent change from baseline to week 12

	Study 1002-048 (N=269)		Study 1002-046 (N=345)	
	Nilemdo n=181	Placebo n=88	Nilemdo n=234	Placebo n=111
LDL-C ^a , n	175	82	224	107
LS Mean	-23.5	5.0	-22.6	-1.2
non-HDL-C ^a , n	175	82	224	107
LS Mean	-18.4	5.2	-18.1	-0.1
apo B ^a , n	174	81	218	104
LS Mean	-14.6	4.7	-14.7	0.3
TC ^a , n	176	82	224	107
LS Mean	-15.1	2.9	-15.4	-0.6

apo B=apolipoprotein B; HDL-C=high-density lipoprotein cholesterol; LDL C=low-density lipoprotein cholesterol; LS=least squares; TC=total cholesterol.

Background statin (1002-048): atorvastatin, simvastatin, rosuvastatin, pravastatin, lovastatin

Background statin (1002-046): atorvastatin, simvastatin, pitavastatin, rosuvastatin, pravastatin, lovastatin

a. Percent change from baseline was analysed using analysis of covariance (ANCOVA), with treatment and randomisation strata as factors and baseline lipid parameter as a covariate.

In all four trials, the maximum LDL-C lowering effects were observed as early as week 4 and efficacy was maintained throughout the trials. These results were consistent across all subgroups studied in any of the trials, including age, gender, race, ethnicity, region, history of diabetes, baseline LDL-C, body mass index (BMI), HeFH status, and background therapies.

Paediatric population

The European Medicines Agency has deferred the obligation to submit the results of studies with bempedoic acid in paediatric population from 4 to less than 18 years of age in the treatment of elevated cholesterol. See section 4.2 for information on paediatric use.

5.2 Pharmacokinetic properties

Absorption

Pharmacokinetic data indicate that bempedoic acid is absorbed with a median time to maximum concentration of 3.5 hours when administered as Nilemdo 180 mg tablets. Bempedoic acid pharmacokinetic parameters are presented as the mean [standard deviation (SD)] unless otherwise specified. Bempedoic acid can be considered a prodrug that is activated intracellularly by ACSVL1 to ETC-1002-CoA. The steady-state C_{max} and AUC following multiple dose administration in patients with hypercholesterolaemia were 24.8 (6.9) microgram/mL and 348 (120) microgram·h/mL, respectively. Bempedoic acid steady-state pharmacokinetics were generally linear over a range of 120 mg to 220 mg. There were no time-dependent changes in bempedoic acid pharmacokinetics following repeat administration at the recommended dose, and bempedoic acid steady-state was achieved after 7 days. The mean accumulation ratio of bempedoic acid was approximately 2.3-fold.

Concomitant food administration had no effect on the oral bioavailability of bempedoic acid when administered as Nilemdo 180 mg tablets. Food slows the absorption rate of bempedoic acid; the absorption rate constant with food is 0.32/h.

Distribution

The bempedoic acid apparent volume of distribution (V/F) was 18 L. Plasma protein binding of bempedoic acid, its glucuronide and its active metabolite, ESP15228, were 99.3%, 98.8% and 99.2%, respectively. Bempedoic acid does not partition into red blood cells.

Biotransformation

In vitro metabolic interaction studies suggest that bempedoic acid, as well as its active metabolite and glucuronide forms are not metabolised by and do not inhibit or induce cytochrome P450 enzymes.

The primary route of elimination for bempedoic acid is through metabolism to the acyl glucuronide. Bempedoic acid is also reversibly converted to an active metabolite (ESP15228) based on aldo-keto reductase activity observed *in vitro* from human liver. Mean plasma AUC metabolite/parent drug ratio for ESP15228 following repeat-dose administration was 18% and remained constant over time. Both compounds are converted to inactive glucuronide conjugates *in vitro* by UGT2B7. Bempedoic acid, ESP15228 and their respective conjugated forms were detected in plasma with bempedoic acid accounting for the majority (46%) of the AUC_{0-48h} and its glucuronide being the next most prevalent (30%). ESP15228 and its glucuronide represented 10% and 11% of the plasma AUC_{0-48h}, respectively.

The steady-state C_{max} and AUC of the equipotent active metabolite (ESP15228) of bempedoic acid in patients with hypercholesterolaemia were 3.0 (1.4) microgram/mL and 54.1 (26.4) microgram·h/mL, respectively. ESP15228 likely made a minor contribution to the overall clinical activity of bempedoic acid based on systemic exposure and pharmacokinetic properties.

Elimination

The steady-state clearance (CL/F) of bempedoic acid determined from a population PK analysis in patients with hypercholesterolaemia was 12.1 mL/min after once-daily dosing; renal clearance of unchanged bempedoic acid represented less than 2% of total clearance. The mean (SD) half-life for bempedoic acid in humans was 19 (10) hours at steady-state.

Following single oral administration of 240 mg of bempedoic acid (1.3 times the approved recommended dose), 62.1% of the total dose (bempedoic acid and its metabolites) was recovered in urine, primarily as the acyl glucuronide conjugate of bempedoic acid, and 25.4% was recovered in faeces. Less than 5% of the administered dose was excreted as unchanged bempedoic acid in faeces and urine combined.

Special populations

Renal impairment

Pharmacokinetics of bempedoic acid was evaluated in a population PK analysis performed on pooled data from all clinical trials (n=2,261) to assess renal function on the steady-state AUC of bempedoic acid and in a single-dose pharmacokinetic study in subjects with varying degrees of renal function. Compared to patients with normal renal function, the mean bempedoic acid exposures were higher in patients with mild or moderate renal impairment by 1.4-fold (90% PI: 1.3, 1.4) and 1.9-fold (90% PI: 1.7, 2.0), respectively (see section 4.4).

There is limited information in patients with severe renal impairment; in a single dose study, the bempedoic acid AUC was increased by 2.4-fold in patients (n=5) with severe renal impairment (eGFR < 30 mL/min/1.73 m²) compared to those with normal renal function. Clinical studies of bempedoic acid did not include patients with ESRD on dialysis (see section 4.4).

Hepatic impairment

The pharmacokinetics of bempedoic acid and its metabolite (ESP15228) was studied in patients with normal hepatic function or mild or moderate hepatic impairment (Child-Pugh A or B) following a single dose (n=8/group). Compared to patients with normal hepatic function, the bempedoic acid mean C_{max} and AUC were decreased by 11% and 22%, respectively, in patients with mild hepatic impairment and by 14% and 16%, respectively, in patients with moderate hepatic impairment. This is not expected to result in lower efficacy. Therefore, no dose adjustment is necessary in patients with mild or moderate hepatic impairment.

Bempedoic acid was not studied in patients with severe hepatic impairment (Child-Pugh C).

Other special populations

The pharmacokinetics of bempedoic acid were not affected by age, gender, or race. Body weight was a statistically significant covariate. The lowest quartile of body weight (< 73 kg) was associated with an approximate 30% greater exposure. The increase in exposure was not clinically significant and no dose adjustments are recommended based on weight.

5.3 Preclinical safety data

The standard battery of genotoxicity studies has not identified any mutagenic or clastogenic potential of bempedoic acid. In full lifetime carcinogenicity studies in rodents, bempedoic acid increased the incidence of hepatocellular and thyroid gland follicular tumours in male rats and hepatocellular tumours in male mice. Because these are common tumours observed in rodent lifetime bioassays and the mechanism for tumourigenesis is secondary to a rodent-specific PPAR alpha activation, these tumours are not considered to translate to human risk.

Increased liver weight and hepatocellular hypertrophy were observed in rats only and were partially reversed after the 1-month recovery at ≥ 30 mg/kg/day or 4 times the exposure in humans at 180 mg. Reversible, non-adverse changes in laboratory parameters indicative of these hepatic effects, decreases in red blood cell and coagulation parameters, and increases in urea nitrogen and creatinine were observed in both species at tolerated doses. The NOAEL for adverse response in the chronic studies was 10 mg/kg/day and 60 mg/kg/day associated with exposures below and 15 times the human exposure at 180 mg in rats and monkeys, respectively.

Bempedoic acid was not teratogenic or toxic to embryos or foetuses in pregnant rabbits at doses up to 80 mg/kg/day or 12 times the systemic exposure in humans at 180 mg. Pregnant rats given bempedoic acid at 10, 30, and 60 mg/kg/day during organogenesis had decreased numbers of viable foetuses and reduced foetal body weight at ≥ 30 mg/kg/day or 4 times the systemic exposure in humans at 180 mg. An increased incidence of foetal skeletal findings (bent scapula and ribs) were observed at all doses, at exposures below the systemic exposure in humans at 180 mg. In a pre- and post-natal development study, pregnant rats administered bempedoic acid at 5, 10, 20 and 30 mg/kg/day throughout pregnancy and lactation had adverse maternal effects at ≥ 20 mg/kg/day and reductions in numbers of live pups and pup survival, pup growth and learning and memory at ≥ 10 mg/kg/day, with maternal exposures at 10 mg/kg/day, less than the exposure in humans at 180 mg.

No data are available on the effect of Nilemdo on human fertility. Administration of bempedoic acid to male and female rats prior to mating and through gestation day 7 in females resulted in changes in estrous cyclicity, decreased numbers of corpora lutea and implants at ≥ 30 mg/kg/day with no effects on male or female fertility or sperm parameters at 60 mg/kg/day (4 and 9 times the systemic exposure in humans at 180 mg, respectively).

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Tablet core

Lactose monohydrate
Microcrystalline cellulose (E460)
Sodium starch glycolate (Type A grade)
Hydroxypropyl cellulose (E463)
Magnesium stearate (E470b)
Silica, colloidal anhydrous (E551)

Film-coating

Partially hydrolysed poly(vinyl alcohol) (E1203)
Talc (E553b)
Titanium dioxide (E171)
Macrogol/PEG (E1521)

6.2 Incompatibilities

In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal products.

6.3 Shelf life

36 months

6.4 Special precautions for storage

This medicinal product does not require any special storage conditions.

6.5 Nature and contents of container

Polyvinyl chloride (PVC)/aluminum blisters.
Pack sizes of 10, 14, 28, 30, 84, 90, 98 or 100 film-coated tablets.
Polyvinyl chloride (PVC)/aluminum perforated unit dose blisters.
Pack sizes of 10 x 1, 50 x 1 or 100 x 1 film-coated tablets.

Not all pack sizes may be marketed.

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

Daiichi Sankyo Europe GmbH
Zielstattstrasse 48
81379 Munich
Germany

8. MARKETING AUTHORISATION NUMBER(S)

EU/1/20/1425/001 - 011

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 01/04/2020

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**

A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE

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

Daiichi Sankyo Europe GmbH
Luitpoldstrasse 1
85276 Pfaffenhofen
Germany

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to medical prescription.

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 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 marketing authorisation holder (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.

ANNEX III
LABELLING AND PACKAGE LEAFLET

A. LABELLING

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON

1. NAME OF THE MEDICINAL PRODUCT

Nilemdo 180 mg film-coated tablets
bempedoic acid

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each tablet contains 180 mg of bempedoic acid.

3. LIST OF EXCIPIENTS

Contains lactose. See leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

Film-coated tablets

10 film-coated tablets

14 film-coated tablets

28 film-coated tablets

30 film-coated tablets

84 film-coated tablets

90 film-coated tablets

98 film-coated tablets

100 film-coated tablets

10 x 1 film-coated tablet

50 x 1 film-coated tablet

100 x 1 film-coated tablet

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use.
Oral use

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

Daiichi Sankyo Europe GmbH
81366 Munich,
Germany

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/20/1425/001 10 film-coated tablets
EU/1/20/1425/007 14 film-coated tablets
EU/1/20/1425/002 28 film-coated tablets
EU/1/20/1425/003 30 film-coated tablets
EU/1/20/1425/008 84 film-coated tablets
EU/1/20/1425/004 90 film-coated tablets
EU/1/20/1425/005 98 film-coated tablets
EU/1/20/1425/006 100 film-coated tablets
EU/1/20/1425/009 10 x 1 film-coated tablet
EU/1/20/1425/010 50 x 1 film-coated tablet
EU/1/20/1425/011 100 x 1 film-coated tablet

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Nilemdo 180 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
NN

MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS

BLISTER

1. NAME OF THE MEDICINAL PRODUCT

Nilemdo 180 mg film-coated tablets
bempedoic acid

2. NAME OF THE MARKETING AUTHORISATION HOLDER

Daiichi-Sankyo (logo)

3. EXPIRY DATE

EXP

4. BATCH NUMBER

Lot

5. OTHER

B. PACKAGE LEAFLET

Package leaflet: Information for the patient

Nilemdo 180 mg film-coated tablets bempedoic acid



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

1. What Nilemdo is and what it is used for

What Nilemdo is and how it works

Nilemdo is a medicine that lowers levels of ‘bad’ cholesterol (also called “LDL-cholesterol”), a type of fat, in the blood.

Nilemdo contains the active substance bempedoic acid, which is inactive until it enters the liver where it is changed to its active form. Bempedoic acid decreases the production of cholesterol in the liver and increases the removal of LDL-cholesterol from the blood by blocking an enzyme (ATP citrate lyase) needed for the production of cholesterol.

What Nilemdo is used for

Nilemdo is given to adults with primary hypercholesterolaemia or mixed dyslipidaemia, which are conditions that cause a high cholesterol level in the blood. It is given in addition to a cholesterol-lowering diet.

Nilemdo is given:

- if you have been using a statin (such as simvastatin, a commonly used medicine that treats high cholesterol) and this does not lower your LDL-cholesterol sufficiently;
- alone or together with other cholesterol-lowering medicines when statins are not tolerated or cannot be used.

2. What you need to know before you take Nilemdo

Do not take Nilemdo:

- if you are allergic to bempedoic acid or any of the other ingredients of this medicine (listed in section 6);
- if you are pregnant;
- if you are breast-feeding;
- if you take more than 40 mg of simvastatin daily (another medicine used to lower cholesterol).

Warnings and precautions

Talk to your doctor or pharmacist before taking Nilemdo:

- if you ever had gout;
- if you have severe kidney problems;
- if you have severe liver problems.

Your doctor may do a blood test before you start taking Nilemdo. This is to check how well your liver is working.

Children and adolescents

Do not give Nilemdo to children and adolescents under 18 years of age. The use of Nilemdo has not been studied in this age group.

Other medicines and Nilemdo

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines. In particular, tell your doctor if you are taking medicine(s) with any of the following active substances:

- atorvastatin, fluvastatin, pitavastatin, pravastatin, rosuvastatin, simvastatin (used to lower cholesterol and known as statins).
The risk of muscle disease may increase when taking both a statin and Nilemdo. Tell your doctor immediately about any unexplained muscle pain, tenderness or weakness.
- bosentan (used to manage a condition called pulmonary artery hypertension).
- fimasartan (used to treat high blood pressure and heart failure).
- asunaprevir, glecaprevir, grazoprevir, voxilaprevir (used to treat hepatitis C).

Pregnancy and breast-feeding

Do not take this medicine if you are pregnant, trying to get pregnant, or think you may be pregnant, as there is a possibility that it could harm an unborn baby. If you get pregnant while taking this medicine, call your doctor immediately and stop taking Nilemdo.

- **Pregnancy**
Before starting treatment, you should confirm you are not pregnant and are using effective contraception, as advised by your doctor. If you use contraceptive pills and suffer from an episode of diarrhoea or vomiting that lasts more than 2 days, you must use an alternative method of contraception (e.g. condoms, diaphragm) for 7 days following resolution of symptoms.

If, after you have started treatment with Nilemdo, you decide that you would like to become pregnant, tell your doctor, as your treatment will need to be changed.

- **Breast-feeding**
Do not take Nilemdo if you are breast-feeding because it is not known if Nilemdo passes into milk.

Driving and using machines

Nilemdo has no or little influence on the ability to drive and use machines.

Nilemdo contains lactose and sodium

If you have been told by your doctor that you have an intolerance to some sugars, contact your doctor before taking this medicine.

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

3. How to take Nilemdo

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

The recommended dose is one tablet once daily.

Swallow the tablet whole with food or between meals.

If you take more Nilemdo than you should

Contact your doctor or pharmacist immediately.

If you forget to take Nilemdo

If you notice that you forgot:

- a dose late in a day, take the missed dose and take the next dose at your regular time the next day.
- the previous day's dose, take your tablet at the regular time and do not make up for the forgotten dose.

If you stop taking Nilemdo

Do not stop taking Nilemdo without your doctor's permission as your cholesterol may rise again.

If you have any further questions on the use of this medicine, ask your doctor or pharmacist.

4. Possible side effects

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

Side effects can occur with the following frequencies:

Common (may affect up to 1 in 10 people)

- lower number of red blood cells (anaemia)
- increased levels of uric acid in blood, gout
- pain in shoulders, legs, or arms
- blood test results indicating liver abnormalities

Uncommon (may affect up to 1 in 100 people)

- decreased haemoglobin (a protein in red blood cells that carries oxygen)
- raised creatinine and blood urea nitrogen (laboratory tests of kidney function)
- decreased glomerular filtration rate (a measure of how well your kidneys are working)

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 Nilemdo

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 blister and carton after EXP. The expiry date refers to the last day of the month.

This medicine does not require any special storage conditions.

Do not throw away any medicine 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 Nilemdo contains

- The active substance is bempedoic acid. Each film-coated tablet contains 180 mg of bempedoic acid.
- The other ingredients are:
 - lactose monohydrate (see end of section 2 under ‘Nilemdo contains lactose and sodium’)
 - microcrystalline cellulose (E460)
 - sodium starch glycolate (Type A grade) (see end of section 2 under ‘Nilemdo contains lactose and sodium’)
 - hydroxypropyl cellulose (E463)
 - magnesium stearate (E470b)
 - silica, colloidal anhydrous (E551)
 - partially hydrolysed poly(vinyl alcohol) (E1203), talc (E553b), titanium dioxide (E171), macrogol/PEG (E1521)

What Nilemdo looks like and contents of the pack

Film-coated tablets are white to off-white, oval, debossed with “180” on one side and “ESP” on the other side. Tablet dimensions: 13.97 mm × 6.60 mm × 4.80 mm.

Nilemdo is supplied in plastic/aluminium blisters in cartons of 10, 14, 28, 30, 84, 90, 98 or 100 film-coated tablets or unit dose blisters in cartons of 10 x 1, 50 x 1 or 100 x 1 film-coated tablets.

Not all pack sizes may be marketed in your country.

Marketing Authorisation Holder

Daiichi Sankyo Europe GmbH
Zielstattstrasse 48
81379 Munich
Germany

Manufacturer

Daiichi Sankyo Europe GmbH
Luitpoldstrasse 1
85276 Pfaffenhofen
Germany

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:

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This leaflet was last revised in {month YYYY}.

Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site:
<http://www.ema.europa.eu>.