ANNEX I SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE MEDICINAL PRODUCT

TAKHZYRO 150 mg solution for injection in pre-filled syringe TAKHZYRO 300 mg solution for injection in pre-filled syringe TAKHZYRO 300 mg solution for injection in pre-filled pen TAKHZYRO 300 mg solution for injection

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

TAKHZYRO 150 mg solution for injection in pre-filled syringe

One unit (pre-filled syringe) contains 150 mg of lanadelumab* in 1 ml solution.

TAKHZYRO 300 mg solution for injection (pre-filled syringe, pre-filled pen, or vial)

One unit (pre-filled syringe, pre-filled pen, or vial) contains 300 mg of lanadelumab* in 2 ml solution.

*Lanadelumab is produced in Chinese Hamster Ovary (CHO) cells by recombinant DNA technology.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Solution for injection

The solution is colourless to slightly yellow, appearing either clear or slightly opalescent.

The solution has a pH of approximately 6.0 and an osmolality of approximately 300 mOsm/kg.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

TAKHZYRO is indicated for routine prevention of recurrent attacks of hereditary angioedema (HAE) in patients aged 2 years and older.

4.2 Posology and method of administration

This medicinal product should be initiated under the supervision of a physician experienced in the management of patients with hereditary angioedema (HAE).

Posology

Adults and Adolescents 12 to less than 18 years of age

The recommended starting dose is 300 mg lanadelumab every 2 weeks. In patients who are stably attack free on treatment, a dose reduction to 300 mg lanadelumab every 4 weeks may be considered, especially in patients with low weight.

In patients with a body weight less than 40 kg, a starting dose of 150 mg lanadelumab every 2 weeks may also be considered. In patients who are stably attack free on treatment, a dose reduction to 150 mg lanadelumab every 4 weeks may be considered.

Children 2 to less than 12 years of age

The recommended dose of lanadelumab for children 2 to less than 12 years of age is based on body weight (see table below) and should only be administered via a pre-filled syringe or vial.

The pre-filled pen has not been studied in children 2 to less than 12 years of age and therefore should not be used.

Patients with a body weight of 20 to less than 40 kg who are stably attack free may continue with the same dose when reaching 12 years of age.

Table 1. Recommended dose in children 2 to less than 12 years of age

Body Weight (kg)	Recommended Starting Dose	Dose Adjustment
10 to less than 20 kg	150 mg lanadelumab every 4 weeks	A dose increase to 150 mg lanadelumab every 3 weeks may be considered in patients with insufficient control of attacks
20 to less than 40 kg	150 mg lanadelumab every 2 weeks	A dose reduction to 150 mg lanadelumab every 4 weeks may be considered in patients who are stably attack free on treatment
40 kg or more	300 mg lanadelumab every 2 weeks	A dose reduction to 300 mg lanadelumab every 4 weeks may be considered in patients who are stably attack free on treatment

Consideration should be given to discontinuing treatment in patients with HAE with normal C1 esterase inhibitor (nC1-INH) who have shown insufficient reduction in attacks after 3 months of treatment (see section 4.4 and 5.1).

TAKHZYRO is not intended for treatment of acute HAE attacks (see section 4.4).

Missed doses

If a dose of TAKHZYRO is missed, the patient or caregiver should be instructed to administer the dose as soon as possible. The subsequent dosing schedule may need adjustment according to the intended dosing frequency to ensure:

- at least 10 days between doses for patients on every 2 weeks dosing regimen,
- at least 17 days between doses for patients on every 3 weeks dosing regimen,
- at least 24 days between doses for patients on every 4 weeks dosing regimen.

Special populations

Elderly

Age is not expected to affect exposure to lanadelumab. No dose adjustment is required for patients above 65 years of age (see section 5.2).

Hepatic impairment

No studies have been conducted in patients with hepatic impairment. Hepatic impairment is not expected to affect exposure to lanadelumab. No dose adjustment is required in patients with hepatic impairment (see section 5.2).

Renal impairment

No studies have been conducted in patients with severe renal impairment. Renal impairment is not expected to affect exposure to lanadelumab or the safety profile. No dose adjustment is required in patients with renal impairment (see section 5.2).

Paediatric population

The safety and efficacy of TAKHZYRO in children aged less than 2 years have not been established. No data are available.

Method of administration

TAKHZYRO is intended for subcutaneous (SC) administration only.

Each TAKHZYRO unit (pre-filled syringe, pre-filled pen, or vial) is intended for single use only (see section 6.6).

The injection should be restricted to the recommended injection sites: the abdomen, the thighs, and the upper outer arms (see section 5.2). Rotation of the injection site is recommended.

For adults and adolescents (12 to less than 18 years of age), TAKHZYRO may be self-administered or administered by a caregiver only after training on subcutaneous injection technique by a healthcare professional.

For children (2 to less than 12 years of age), TAKHZYRO should only be administered by a caregiver after training on subcutaneous injection technique by a healthcare professional.

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

Traceability

In order to improve the traceability of biological medicinal products, the name and the batch number of the administered product should be clearly recorded.

Hypersensitivity reactions

Hypersensitivity reactions have been observed. In case of a severe hypersensitivity reaction, administration of TAKHZYRO must be stopped immediately and appropriate treatment must be initiated.

General

TAKHZYRO is not intended for treatment of acute HAE attacks. In case of a breakthrough HAE attack, individualized treatment should be initiated with an approved rescue medication.

There is limited clinical data on the use of lanadelumab in HAE patients with normal C1-INH (see section 5.1).

Patients with HAE nC1-INH having mutations that are not associated with the kallikrein-kinin system (KKS) pathway are not expected to respond to TAKHZYRO. It is recommended to perform genetic

testing, if available, according to the current HAE guidelines and to discontinue the treatment if clinical response is not observed (see section 4.2 and 5.1).

Interference with coagulation test

Lanadelumab can increase activated partial thromboplastin time (aPTT) due to an interaction of lanadelumab with the aPTT assay. The reagents used in the aPTT laboratory test initiate intrinsic coagulation through the activation of plasma kallikrein in the contact system. Inhibition of plasma kallikrein by lanadelumab can increase aPTT in this assay. None of the increases in aPTT in patients treated with TAKHZYRO were associated with abnormal bleeding adverse events. There were no differences in international normalised ratio (INR) between treatment groups.

Sodium content

This medicinal product contains less than 1 mmol sodium (23 mg) per pre-filled syringe, pre-filled pen, or vial, that is to say essentially 'sodium-free'.

4.5 Interaction with other medicinal products and other forms of interaction

No dedicated drug-drug interaction studies have been conducted. Based on the characteristics of lanadelumab, no pharmacokinetic interactions with co-administered medicinal products is expected.

As expected, concomitant use of the rescue medication C1 esterase inhibitor results in an additive effect on lanadelumab-cHMWK response based on the mechanism of action of lanadelumab and C1 esterase inhibitor (see section 5.1).

4.6 Fertility, pregnancy and lactation

Pregnancy

There are no or limited data from the use of lanadelumab in pregnant women. Animal studies do not indicate direct or indirect harmful effects with respect to reproductive or developmental toxicity (see section 5.3). As a precautionary measure, it is preferable to avoid the use of lanadelumab during pregnancy.

Breast-feeding

It is unknown whether lanadelumab is excreted in human milk. Human IgGs are known to be excreted in breast milk during the first few days after birth, which is decreasing to low concentrations soon afterwards; consequently, a risk to the breast-fed child cannot be excluded during this short period. Afterwards, lanadelumab could be used during breast-feeding if clinically needed.

Fertility

Lanadelumab's effect on fertility has not been evaluated in humans. Lanadelumab had no effect on male or female fertility in cynomolgus monkeys (see section 5.3).

4.7 Effects on ability to drive and use machines

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

4.8 Undesirable effects

Summary of the safety profile

The most commonly (52.4%) observed adverse reaction associated with TAKHZYRO was injection site reactions (ISR) including injection site pain, injection site erythema and injection site bruising. Of

these ISRs, 97% were of mild intensity, 90% resolved within 1 day after onset with a median duration of 6 minutes.

Hypersensitivity reaction (mild and moderate pruritus, discomfort and tingling of tongue) was observed (1.2%), see section 4.4.

Tabulated list of adverse reactions

Table 2 summarises adverse reactions observed in the HELP study that included 84 subjects with HAE, who received at least one dose of TAKHZYRO.

The frequency of adverse reactions listed in Table 2 is defined using the following convention: Very common ($\geq 1/10$); common ($\geq 1/100$); uncommon ($\geq 1/1000$); rare ($\geq 1/10000$) to < 1/1000); very rare (< 1/10000).

Table 2. Adverse reactions reported with lanadelumab

System organ class	Adverse drug reaction	Frequency
Immune system disorders	Hypersensitivity*	Common
Nervous system disorders	Dizziness	Common
Skin and subcutaneous tissue disorders	Rash maculo-papular	Common
Musculoskeletal and connective tissue disorders	Myalgia	Common
General disorders and administration site conditions	Injection site reactions**	Very common
	Alanine aminotransferase increased	Common
Investigations	Aspartate aminotransferase increased	Common

^{*}Hypersensitivity includes: pruritus, discomfort and tingling of tongue.

Safety data available from the HELP study extension are consistent with the safety data from the HELP study (described in Table 2).

Paediatric population

The safety of TAKHZYRO 300 mg/2 ml was evaluated in a subgroup of 23 subjects 12 to less than 18 years of age in the HELP and HELP study extension. In the SPRING study, safety of TAKHZYRO was also evaluated at 150 mg/1 ml in 21 subjects 2 to less than 12 years of age (see section 5.1). No subject below the age of 3.5 years was receiving lanadelumab in the study. No new adverse reactions were identified. Safety and tolerability results for paediatric subjects were consistent with overall study results for all subjects.

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.

^{**}Injection site reactions include: pain, erythema, bruising, discomfort, haematoma, haemorrhage, pruritus, swelling, induration, paraesthesia, reaction, warmth, oedema and rash.

4.9 Overdose

No case of overdose has been reported. There is no available information to identify potential signs and symptoms of overdose. If symptoms should occur, symptomatic treatment is recommended. There is no antidote available.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Other haematological agents, drugs used in hereditary angioedema, ATC code: B06AC05

Mechanism of action

Lanadelumab is a fully human, monoclonal antibody (IgG1/ κ -light chain). Lanadelumab inhibits active plasma kallikrein proteolytic activity. Increased plasma kallikrein activity leads to proteolysis of high-molecular-weight-kininogen (HMWK) to generate cleaved HMWK (cHMWK) and bradykinin, which is associated with inflammation and swelling in HAE attacks.

Pharmacodynamic effects

In adult and adolescent (12 to less than 18 years of age) patients, concentration-dependent inhibition of plasma kallikrein, measured as reduction of cHMWK levels, was demonstrated after subcutaneous administration of TAKHZYRO 150 mg every 4 weeks, 300 mg every 4 weeks or 300 mg every 2 weeks in subjects with HAE.

The pharmacokinetic-pharmacodynamic (PK-PD) relationship between TAKHZYRO and cHMWK is described by an indirect exposure-response pharmacological model. The cHMWK formation rate was maximally reduced by 53.7% and the TAKHZYRO concentration associated with the 50% inhibition (IC₅₀) was 5.705 ng/ml.

For children aged 2 to less than 6 years (150 mg every 4 weeks) and 6 to less than 12 years (150 mg every 2 weeks), the observed mean percent change from baseline in cHMWK levels was similar to that observed in adult and adolescent (12 to less than 18 years of age) patients.

Clinical efficacy and safety

HELP study

The HELP study was a multicenter, randomised, double-blind, placebo-controlled parallel-group study in 125 (115 adults and 10 adolescents) subjects with symptomatic type I or II HAE. Subjects were randomised into 1 of 4 parallel treatment arms, stratified by baseline attack rate, in a 3:2:2:2 ratio (placebo, lanadelumab 150 mg every 4 weeks, lanadelumab 300 mg every 4 weeks, or lanadelumab 300 mg every 2 weeks by subcutaneous injection) for the 26-week treatment period.

The median (range) age of the study population was 42 (12 to 73) years with 88 female subjects (70%). A history of laryngeal angioedema attacks was reported in 65% (81/125) of subjects and 56% (70/125) were on prior long-term prophylaxis (LTP). During the study run-in period, the mean attack rate was 3.7 attacks/month with 52% (65/125) of subjects experiencing \geq 3 attacks/month.

All TAKHZYRO treatment arms produced statistically significant reductions in the mean HAE attack rate compared to placebo across all primary and secondary endpoints in the Intent-to-Treat population (ITT) (Table 3).

Table 3. Results of primary and secondary efficacy measures-ITT population

		Lanadelumab		
Endpoint statistics ^a	Placebo (N = 41)	150 mg every 4 weeks	300 mg every 4 weeks	300 mg every 2 weeks
		(N=28)	(N=29)	(N = 27)
Primary endpoint – Number of HAI	E attacks from	Day 0 to 182		
LS Mean (95% CI) monthly attack	1.97 (1.64,	0.48 (0.31,	0.53 (0.36,	0.26 (0.14,
rate ^b	2.36)	0.73)	0.77)	0.46)
% Reduction relative to placebo		76 (61, 85)	73 (59, 82)	87 (76, 93)
(95% CI) ^c				
Adjusted p-values ^d		< 0.001	< 0.001	< 0.001
Secondary endpoint – Number of H	AE attacks red	quiring acute t	reatment from	Day 0 to 182
LS Mean (95% CI) monthly attack	1.64 (1.34,	0.31 (0.18,	0.42 (0.28,	0.21 (0.11,
rate ^b	2.00)	0.53)	0.65)	0.40)
% Reduction relative to placebo (95% CI) ^c		81 (66, 89)	74 (59, 84)	87 (75, 93)
Adjusted p-values ^d		< 0.001	< 0.001	< 0.001
Secondary endpoint – Number of m	oderate or sev	ere HAE attac	ks from Day 0	to 182
LS Mean (95% CI) monthly attack	1.22 (0.97,	0.36 (0.22,	0.32 (0.20,	0.20 (0.11,
rate ^b	1.52)	0.58)	0.53)	0.39)
% Reduction relative to placebo (95% CI) ^c		70 (50, 83)	73 (54, 84)	83 (67, 92)
Adjusted p-values ^d		< 0.001	< 0.001	< 0.001

Note: CI = confidence interval; LS = least squares.

The mean reduction in HAE attack rate was consistently higher across the TAKHZYRO treatment arms compared to placebo regardless of the baseline history of LTP, laryngeal attacks, or attack rate during the run-in period. The percentage of subjects who were attack free is provided in Table 4.

Table 4. Percentage of subjects who were attack free through treatment

Criteria	Placebo	150 mg every 4 weeks	300 mg every 4 weeks	300 mg every 2 weeks
Treatment period (Day 0 to Day 182, 26 weeks)				
N	41	28	29	27
Attack free	2%	39%	31%	44%

The percentage of patients who were attack free for the last 16-weeks (Day 70 to Day 182) of the study was 77% in the 300 mg every 2 weeks group, compared to 3% of patients in the placebo group.

100% of the subjects on 300 mg every 2 weeks or every 4 weeks and 89% on 150 mg every 4 weeks achieved at least a 50% reduction in HAE attack rate compared to the run-in period.

^a Results are from a Poisson regression model accounting for over dispersion with fixed effects for treatment group (categorical) and normalized baseline attack rate (continuous), and the logarithm of time in days each subject was observed during the treatment period as an offset variable in the model.

^b Model-based treatment period HAE attack rate (attacks/4 weeks).

 $^{^{\}rm c}$ % reduction relative to placebo corresponds to 100% * (1-rate ratio). The rate ratio is ratio of the model-based treatment period HAE attack rates.

^d Adjusted p-values for multiple testing.

Health related quality of life

All TAKHZYRO treatment groups observed an improvement in Angioedema Quality of Life Questionnaire (AE-QoL) total and domain (functioning, fatigue/mood, fear/shame, and nutrition) scores compared to the placebo group; the largest improvement was observed in the functioning score as shown in Table 5. A reduction of 6 points is considered a clinically meaningful improvement. The percentage of patients who achieved a clinically meaningful improvement in AE-QoL total score was 65% (Odds ratio vs placebo, [95% CI] = 3.2 [1.1, 9.2]), 63% (2.9 [1.1, 8.1]), and 81% (7.2 [2.2, 23.4]), in TAKHZYRO 150 mg every 4 weeks, 300 mg every 4 weeks, and 300 mg every 2 weeks groups, respectively, compared to 37% of patients in the placebo group.

Table 5. Change in AE-QoL score^a placebo vs TAKHZYRO at week 26 in HELP study

LS mean change (SD) from baseline at week 26	Placebo	TAKHZYRO total
AE-QoL Total score	-4.7 (18.8)	-19.5 (18.6)
Functioning score	-5.4 (22.7)	-29.3 (22.9)
Fatigue/Mood score	-1.8 (23.3)	-13.0 (23.1)
Fear/Shame score	-9.0 (24.0)	-18.8 (23.7)
Nutrition score	0.5 (22.5)	-17.0 (22.3)

Note: AE-QoL = Angioedema Quality of Life; LS = least squares; SD = standard deviation.

HELP study extension

Long-term safety and efficacy, PK, and impact on health-related quality of life (HRQoL) of TAKHZYRO for prophylaxis to prevent HAE attacks were evaluated in an open-label uncontrolled HELP study extension.

A total of 212 adult and adolescent (\geq 12 years) subjects with symptomatic type I or II HAE received at least one dose of lanadelumab 300 mg every 2 weeks in this study, including 109 subjects who entered as rollover subjects from the HELP study. Rollover subjects, regardless of randomisation group in the HELP Study, received a single dose of lanadelumab 300 mg at study entry and did not receive additional treatment until the occurrence of an HAE attack. After the first HAE attack, all subjects received open-label treatment with lanadelumab 300 mg every 2 weeks. The study also included 103 new or non-rollover subjects (including 19 subjects from Phase1b study) who had a historical baseline attack rate of \geq 1 attack per 12 weeks. The non-rollover subjects received lanadelumab 300 mg every 2 weeks at study entry. Subjects were allowed to initiate self-administration after receiving the first 2 doses from a health care professional in clinic and completing appropriate training.

The majority of subjects (173/212; 81.6%) who were treated in this study completed at least 30 months of treatment (either as a rollover or non-rollover subjects). The mean (SD) time in the HELP study extension was 29.6 (8.20) months. The majority of subjects self-administered lanadelumab (60.6% of 8,018 injections).

There was a sustained reduction in attack rates compared to baseline during the HELP study extension, with a similar response to TAKHZYRO observed in both rollover (92.4%) and non-rollover groups (82.0%) and an overall reduction rate of 87.4%. Though the magnitude of the attack rate reduction in the HELP study limited the potential for further reductions in the HELP extension study, mean attack

^a Lower scores indicate lower impairment (or better health-related quality of life).

rates for the rollover subjects decreased further at the time of the final analysis and ranged from 0.08 to 0.26 attacks per month. In addition, the mean (SD) percentage of attack-free days was 97.7 (6.0)% and the mean (SD) duration of the attack-free period was 415.0 (346.1) days. The proportion of patients with a maximum attack-free period of 6 months or more or 12 months or more was 81.8% and 68.9%, respectively.

CASPIAN study

The CASPIAN study was a multicenter, randomised, double-blind, placebo-controlled study in 77 adult subjects to evaluate the efficacy of lanadelumab in preventing acute attacks of non-histaminergic angioedema in subjects with normal C1-INH. Of the subjects enrolled, 5 (6.5%) were HAE nC1-INH subjects with known mutations (FXII, PLG), 13 (16.9%) were HAE nC1-INH subjects with a family history of angioedema but who did not have a known mutation, and 59 (76.6%) were subjects with idiopathic non-histaminergic angioedema who did not meet the clinical definition of HAE. No statistically significant treatment effect compared to placebo was observed in any subgroup.

Paediatric population

SPRING study

The safety and efficacy of TAKHZYRO for prophylaxis to prevent HAE attacks in children were evaluated in an open-label, multicenter, Phase 3 SPRING study. Dosing regimens were based on the following pre-defined age groups: children from 2 to less than 6 years of age were to receive lanadelumab 150 mg every 4 weeks and children from 6 to less than 12 years of age were to receive lanadelumab 150 mg every 2 weeks. The overall treatment period was 52 weeks, equally divided into Treatment Period A and B. The study enrolled 21 paediatric subjects who had a baseline attack rate of ≥ 1 attack per 3 months (12 weeks) and a confirmed diagnosis of type I or II HAE.

In Treatment Period A, subjects aged 2 to < 6 years (n = 4) and 6 to < 12 years (n = 17) received lanadelumab 150 mg every 4 weeks and 150 mg every 2 weeks, respectively. The youngest patient included in the study was 3.5 years old.

In Treatment Period B, subjects receiving lanadelumab 150 mg every 2 weeks (i.e., subjects 6 to less than 12 years of age) could reduce dosing to 150 mg every 4 weeks if they were well-controlled (e.g., attack free) for 26 weeks with lanadelumab treatment. Seven subjects in the 6 to less than 12 years age group switched to 150 mg every 4 weeks during Treatment Period B, and one subject (enrolled in the 2 to less than 6 years age group) turned 6 years of age during Treatment Period A and switched to 150 mg every 2 weeks during Treatment Period B after experiencing recurrent attacks.

The total exposure was 5.5 patient-years in the "every 4 weeks"-dosing regimen group (age range 3.5-10.4 years) and 14.47 patient-years in the "every 2 weeks"-dosing regimen group (age range 6-10.9 years).

The TAKHZYRO dose regimen in both age groups produced reduction in mean HAE attack rate compared to baseline and an increased percentage of attack-free subjects in Treatment Period A (Table 6). Similar results were observed for the overall, 52-week treatment period.

Table 6. Results of efficacy measures

	TAKHZYRO			
Criteria	150 mg every 4 weeks ^a	150 mg every 2 weeks ^a	Total	
Trea	atment Period A (26	weeks)		
N	4	17	21	
Baseline attack rate (attacks/month ^b), mean (SD)	1.9 (1.0)	1.8 (1.6)	1.8 (1.5)	
On-treatment attack rate (attacks/month ^b), mean (SD)	0.2 (0.3)	0.1 (0.2)	0.1 (0.2)	
Attack-free subjects, N (%)	3 (75.0)	14 (82.4)	17 (81.0)	

^a The actual treatment received during the given study period.

Immunogenicity

Anti-drug antibodies (ADA) were very commonly detected. No evidence of ADA impact on pharmacokinetics, efficacy or safety was observed.

5.2 Pharmacokinetic properties

The single and multiple dose pharmacokinetics of lanadelumab have been studied in patients with HAE. Pharmacokinetics of lanadelumab showed linear dose-exposure response with doses up to 400 mg and reproducible exposure following subcutaneous administration up to 12 months. The absolute bioavailability of lanadelumab after subcutaneous administration has not been determined. In the HELP study, patients treated with 300 mg every 2 weeks presented mean (SD) area under the curve over the dosing interval at steady-state (AUC_{tau,ss}), maximum concentration at steady-state ($C_{max,ss}$) and minimum concentration at steady-state ($C_{min,ss}$) of 408 μ g*day/ml (138), 34.4 μ g/ml (11.2), and 25.4 μ g/ml (9.18), respectively. The anticipated time to reach steady state concentration was approximately 70 days.

Absorption

Following subcutaneous administration, the time to maximum concentration is approximately 5 days. The site of subcutaneous injection (thigh, arm, or abdomen) and self-administration did not affect the absorption of lanadelumab.

Distribution

The mean (SD) volume of distribution of lanadelumab in patients with HAE is 14.5 litres (4.53). Lanadelumab is a therapeutic monoclonal antibody and is not expected to bind to plasma proteins.

Elimination

Lanadelumab has a mean (SD) total body clearance of 0.0297 L/h (0.0124) and a terminal elimination half-life of approximately 14 days.

Special populations

No dedicated studies have been conducted to evaluate the pharmacokinetics of lanadelumab in special patient populations including gender, or pregnant women.

^b Month is defined as 28 days. Attack rates at baseline and on-treatment were calculated over the 4-12-week observation period and the 26-week treatment Period A, respectively.

Population pharmacokinetic analyses showed that age, gender and race did not meaningfully influence the pharmacokinetics of lanadelumab. Body weight was identified as an important covariate describing the variability of clearance and volume of distribution of lanadelumab.

Paediatric population

Following subcutaneous administration of 150 mg every 4 weeks (2 to less than 6 years of age) and 150 mg every 2 weeks (6 to less than 12 years of age), the overall exposure (i.e., C_{avg,ss}) to lanadelumab was similar compared with adult and adolescent (12 to less than 18 years of age) patients who received TAKHZYRO 300 mg every 2 weeks (ratio to adults ranged from 0.8 to 1.11).

Renal and hepatic impairment

As IgG monoclonal antibodies are mainly eliminated via intracellular catabolism, renal impairment or hepatic impairment is not expected to influence clearance of lanadelumab.

Accordingly, in a population pharmacokinetic analysis, renal impairment (estimated GFR: $60 \text{ to } 89 \text{ ml/min/}1.73 \text{ m}^2 \text{ [mild, N} = 98] \text{ and } 30 \text{ to } 59 \text{ ml/min/}1.73 \text{ m}^2 \text{ [moderate, N} = 9]) \text{ had no effect on the clearance or volume of distribution of lanadelumab.}$

5.3 Preclinical safety data

In repeat-dose studies evaluating once weekly subcutaneous injection in both rats (up to 28 days) and cynomolgus monkeys (up to 6 months) lanadelumab was well-tolerated at doses of up to and including 50 mg/kg (highest dose tested) with no organs of toxicity identified. Exposures in cynomolgus monkeys following 6 months of administration were approximately 23-fold greater than that noted at 300 mg every 2 weeks based on AUC.

Lanadelumab is not expected to interact directly with DNA or other chromosomal material, as it is made up entirely of naturally occurring amino acids and contains no inorganic or synthetic linkers or other nonprotein portions; therefore no genotoxicity evaluation has been conducted. Carcinogenicity has not been evaluated in animals as based on the weight of evidence approach, lanadelumab is considered to have a low risk for carcinogenicity.

The effects of lanadelumab on fertility were evaluated in sexually mature cynomolgus monkeys. In a 13-week study, once weekly subcutaneous administration of lanadelumab had no effects on male or female fertility at doses of 10 or 50 mg/kg (highest dose tested). Exposures in sexually mature cynomolgus monkeys in the fertility study were approximately 20-and 22-fold greater than that noted at 300 mg every 2 weeks based on C_{max} and AUC, respectively.

In the ePPND study in pregnant cynomolgus monkeys administered once weekly doses of 10 or 50 mg/kg (highest dose tested), there were no lanadelumab-related effects on pregnancy and parturition, embryo-foetal development, survival, growth, and/or postnatal development of offspring. Exposures in the ePPND study were approximately 32-fold greater than that noted at 300 mg every 2 weeks based on AUC.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Disodium phosphate dihydrate Citric acid monohydrate Histidine Sodium chloride Polysorbate 80 Water for injections

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

TAKHZYRO 150 mg and 300 mg solution for injection in pre-filled syringe

2 years

TAKHZYRO 300 mg solution for injection in pre-filled pen

2 years

TAKHZYRO 300 mg solution for injection in vial

2 years

The injection should be administered within 2 hours of preparing the dosing syringe. If not administered immediately after preparation, the syringe may be stored in the refrigerator (2 °C to 8 °C), protected from light and administered within 8 hours.

Chemical and physical in-use stability has been demonstrated for 2 hours at 25 °C and for 8 hours at 2 °C to 8 °C. From a microbiological point of view, unless the method of preparation precludes the risks of microbial contamination, the product should be used immediately. If not used immediately, in-use storage times and conditions are the responsibility of the user.

6.4 Special precautions for storage

Store in a refrigerator (2 °C - 8 °C).

Do not freeze.

Keep the solution (pre-filled syringe, pre-filled pen, or vial) in the outer carton in order to protect from light.

The solution (pre-filled syringe, pre-filled pen, or vial) may be stored below 25 °C for a single period of 14 days, but not beyond the expiry date. Do not return TAKHZYRO to refrigerated storage after storage at room temperature.

When one pre-filled syringe or pre-filled pen from a multi-pack is removed from refrigeration, return the remaining pre-filled syringes or pre-filled pens to the refrigerator until future use when needed.

For storage conditions after first opening of the product in vial, see section 6.3.

6.5 Nature and contents of container

TAKHZYRO 150 mg solution for injection in pre-filled syringe.

1 ml of solution in pre-filed syringe with a bromobutyl stopper, 27G x 13 mm staked needle and rigid needle cap. TAKHZYRO is available as unit packs containing 1 or 2 pre-filled syringes and in multipacks containing 6 (3 packs of 2) pre-filled syringes.

TAKHZYRO 300 mg solution for injection in pre-filled syringe

2 ml of solution in pre-filled syringe with a bromobutyl stopper, 27G x 13 mm staked needle and rigid needle cap. TAKHZYRO is available as unit packs containing 1 or 2 pre-filled syringes and in multipacks containing 6 (3 packs of 2) pre-filled syringes.

TAKHZYRO 300 mg solution for injection in pre-filled pen

2 ml of solution in pre-filled syringe with a bromobutyl stopper, 27G x 13 mm staked needle and rigid needle cap contained within a pre-filled pen. TAKHZYRO is available as unit packs containing 1 or 2 pre-filled pens and in multipacks containing 6 (3 packs of 2) pre-filled pens.

TAKHZYRO 300 mg solution for injection in vial

2 ml of solution in a vial (type I glass) with a coated butyl rubber stopper and an aluminium seal with violet flip-off cap. TAKHZYRO is available as a single pack containing one 2 ml vial and in multipacks comprising 2 or 6 cartons, each carton containing 1 vial.

Each pack also contains the following items:

- Empty 3 ml syringe
- 18G vial access needle
- 27G x 13 mm injection needle

Not all pack sizes may be marketed.

6.6 Special precautions for disposal and other handling

Lanadelumab is provided in single use pre-filled syringes, pre-filled pens, and vials.

Before use, TAKHZYRO solution should be visually inspected for appearance. The solution should be clear or slightly yellow. Solutions that are discoloured or contain particles should not be used.

Avoid vigorous agitation.

Administration steps

TAKHZYRO 150 mg solution for injection in pre-filled syringe

After removing the single use pre-filled syringe from the refrigerator, wait 15 minutes before injecting to allow the solution to reach room temperature. Caregiver should inject TAKHZYRO subcutaneously into the abdomen, thigh, or upper arm (see section 4.2).

TAKHZYRO 300 mg solution for injection in pre-filled syringe

After removing the single use pre-filled syringe from the refrigerator, wait 15 minutes before injecting to allow the solution to reach room temperature. Inject TAKHZYRO subcutaneously into the abdomen, thigh, or upper arm (see section 4.2).

Each pre-filled syringe is for single use only. Discard the pre-filled syringe after injection is completed.

TAKHZYRO 300 mg solution for injection in pre-filled pen

After removing the single use pre-filled pen from the refrigerator, wait 30 minutes before injecting to allow the solution to reach room temperature. Inject TAKHZYRO subcutaneously into the abdomen, thigh, or upper arm (see section 4.2).

Each pre-filled pen is for single use only. Discard the pre-filled pen after injection is completed.

TAKHZYRO 300 mg solution for injection in vial

Using aseptic technique, withdraw the prescribed dose of TAKHZYRO from the vial into the syringe using an 18 gauge needle.

Change the needle on the syringe to a 27 gauge needle or other needle suitable for subcutaneous injection. Inject TAKHZYRO subcutaneously into the abdomen, thigh, or upper arm (see section 4.2).

Discard the vial with any unused contents.

Disposal

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

All needles, syringes and pens should be disposed of in a sharps container.

7. MARKETING AUTHORISATION HOLDER

Takeda Pharmaceuticals International AG Ireland Branch Block 2 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 D02 HW68 Ireland medinfoEMEA@takeda.com

8. MARKETING AUTHORISATION NUMBERS

EU/1/18/1340/001

EU/1/18/1340/002

EU/1/18/1340/003

EU/1/18/1340/004

EU/1/18/1340/005

EU/1/18/1340/006

EU/1/18/1340/007

EU/1/18/1340/008

EU/1/18/1340/009

EU/1/18/1340/010

EU/1/18/1340/011

EU/1/18/1340/012

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 22 November 2018

Date of latest renewal: 11 August 2023

10. DATE OF REVISION OF THE TEXT

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

ANNEX II

- A. MANUFACTURERS OF THE BIOLOGICAL ACTIVE SUBSTANCE AND MANUFACTURERS 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. MANUFACTURERS OF THE BIOLOGICAL ACTIVE SUBSTANCE AND MANUFACTURERS RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturers of the biological active substance

Rentschler Biopharma SE Erwin-Rentschler-Strasse 21 D-88471 Laupheim Germany

Shire Human Genetic Therapies Inc. 400 Shire Way Lexington, MA 02421 USA

Name and address of the manufacturers responsible for batch release

Takeda Pharmaceuticals International AG Ireland Branch Block 2 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 D02 HW68 Ireland

Shire Pharmaceuticals Ireland Limited Blocks 2 and 3 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 Ireland

The printed package leaflet of the medicinal product must state the name and address of the manufacturer responsible for the release of the concerned batch.

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.

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

TAKHZYRO 150 mg solution for injection in pre-filled syringe lanadelumab 2. STATEMENT OF ACTIVE SUBSTANCE Each pre-filled syringe contains 150 mg lanadelumab. **3.** LIST OF EXCIPIENTS Disodium phosphate dihydrate, citric acid monohydrate, histidine, sodium chloride, polysorbate 80, water for injections. 4. PHARMACEUTICAL FORM AND CONTENTS Solution for injection 1 pre-filled syringe of 1 ml 2 pre-filled syringes of 1 ml 5. METHOD AND ROUTE OF ADMINISTRATION Subcutaneous use Read the package leaflet before use For single use only For patients 10 to < 40 kg6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

PRE-FILLED SYRINGE- UNIT PACK CARTON

Keep out of the sight and reach of children.

EXPIRY DATE

OTHER SPECIAL WARNING(S), IF NECESSARY

7.

8.

EXP

1.

NAME OF THE MEDICINAL PRODUCT

9. SPECIAL STORAGE CONDITIONS Store in a refrigerator. Do not freeze. Keep in the outer carton in order to protect from light. 10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF **APPROPRIATE** Dispose unused medicinal products in accordance with local requirements. 11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER Takeda Pharmaceuticals International AG Ireland Branch Block 2 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 D02 HW68 Ireland **12.** MARKETING AUTHORISATION NUMBERS EU/1/18/1340/007 1 pre-filled syringe of 1 ml EU/1/18/1340/008 2 pre-filled syringes of 1 ml **13. BATCH NUMBER** Lot 14. GENERAL CLASSIFICATION FOR SUPPLY **15. INSTRUCTIONS ON USE 16.** INFORMATION IN BRAILLE TAKHZYRO 150 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 OUTER PACKAGING

PRE-FILLED SYRINGE MULTIPACK INNER CARTON (NO BLUE-BOX)

1. NAME OF THE MEDICINAL PRODUCT

TAKHZYRO 150 mg solution for injection in pre-filled syringe lanadelumab

2. STATEMENT OF ACTIVE SUBSTANCE

Each pre-filled syringe contains 150 mg lanadelumab.

3. LIST OF EXCIPIENTS

Disodium phosphate dihydrate, citric acid monohydrate, histidine, sodium chloride, polysorbate 80, water for injections.

4. PHARMACEUTICAL FORM AND CONTENTS

Solution for injection

1 unit pack of 2 pre-filled syringes (1 ml each), can't be sold separately.

5. METHOD AND ROUTE OF ADMINISTRATION

Subcutaneous use Read the package leaflet before use For single use only For patients 10 to < 40 kg

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		
Do r	Store in a refrigerator. Do not freeze. Keep in the outer carton in order to protect from light.		
10.	SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE		
Disp	ose unused medicinal products in accordance with local requirements.		
11.	NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER		
Bloc 50-5 Dub D02	Takeda Pharmaceuticals International AG Ireland Branch Block 2 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 D02 HW68 Ireland		
12.	MARKETING AUTHORISATION NUMBER		
EU/	1/18/1340/009		
13.	BATCH NUMBER		
Lot			
14.	GENERAL CLASSIFICATION FOR SUPPLY		
15.	INSTRUCTIONS ON USE		
_			
16.	INFORMATION IN BRAILLE		
TAK	TAKHZYRO 150 mg		
17.	UNIQUE IDENTIFIER – 2D BARCODE		
18.	UNIQUE IDENTIFIER - HUMAN READABLE DATA		

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

PRE-FILLED SYRINGE MULTIPACK OUTER CARTON (INCLUDING BLUE-BOX)

1. NAME OF THE MEDICINAL PRODUCT

TAKHZYRO 150 mg solution for injection in pre-filled syringe lanadelumab

2. STATEMENT OF ACTIVE SUBSTANCE

Each pre-filled syringe contains 150 mg lanadelumab.

3. LIST OF EXCIPIENTS

Disodium phosphate dihydrate, citric acid monohydrate, histidine, sodium chloride, polysorbate 80, water for injections.

4. PHARMACEUTICAL FORM AND CONTENTS

Solution for injection

Multipack: 6 (3 packs of 2) pre-filled syringes (1 ml each).

5. METHOD AND ROUTE OF ADMINISTRATION

Subcutaneous use Read the package leaflet before use For single use only For patients 10 to < 40 kg

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		
	Store in a refrigerator.		
	ot freeze.		
Keep	o in the outer carton in order to protect from light.		
10.	SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE		
Disp	ose unused medicinal products in accordance with local requirements.		
11.	NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER		
Take	da Pharmaceuticals International AG Ireland Branch		
Bloc	k 2 Miesian Plaza		
	8 Baggot Street Lower		
Dubl			
	HW68		
Irela	nd		
12.	MARKETING AUTHORISATION NUMBER		
EU/1	/18/1340/009		
13.	BATCH NUMBER		
T .			
Lot			
14.	GENERAL CLASSIFICATION FOR SUPPLY		
15.	INSTRUCTIONS ON USE		
16.	INFORMATION IN BRAILLE		
TAK	HZYRO 150 mg		
17.	UNIQUE IDENTIFIER – 2D BARCODE		
2Dh	arcode carrying the unique identifier included.		

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC

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MIN	MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS		
PRE-	PRE-FILLED SYRINGE LABEL		
1.	NAME OF THE MEDICINAL PRODUCT AND ROUTE OF ADMINISTRATION		
	HZYRO 150 mg injection elumab		
2.	METHOD OF ADMINISTRATION		
	the package leaflet before use atients 10 to < 40 kg		
3.	EXPIRY DATE		
EXP			
4.	BATCH NUMBER		
Lot			
5.	CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT		
1 ml			
6.	OTHER		

PARTICULARS TO APPEAR ON THE OUTER PACKAGING PRE-FILLED SYRINGE – UNIT PACK CARTON 1. NAME OF THE MEDICINAL PRODUCT TAKHZYRO 300 mg solution for injection in pre-filled syringe lanadelumab 2. STATEMENT OF ACTIVE SUBSTANCE Each pre-filled syringe contains 300 mg lanadelumab. 3. LIST OF EXCIPIENTS Disodium phosphate dihydrate, citric acid monohydrate, histidine, sodium chloride, polysorbate 80, water for injections. 4. PHARMACEUTICAL FORM AND CONTENTS Solution for injection 1 pre-filled syringe of 2 ml 2 pre-filled syringes of 2 ml 5. METHOD AND ROUTE OF ADMINISTRATION Subcutaneous use Read the package leaflet before use For single use only 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**

9. SPECIAL STORAGE CONDITIONS

Store in a refrigerator.

Do not freeze.

EXP

Keep in the outer carton in order to protect from light.

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

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Takeda Pharmaceuticals International AG Ireland Branch Block 2 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 D02 HW68 Ireland

12. MARKETING AUTHORISATION NUMBERS

EU/1/18/1340/004 1 pre-filled syringe of 2 ml EU/1/18/1340/005 2 pre-filled syringes of 2 ml

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

TAKHZYRO 300 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

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PARTICULARS TO APPEAR ON THE OUTER PACKAGING PRE-FILLED SYRINGE MULTIPACK INNER CARTON (NO BLUE-BOX) 1. NAME OF THE MEDICINAL PRODUCT TAKHZYRO 300 mg solution for injection in pre-filled syringe lanadelumab 2. STATEMENT OF ACTIVE SUBSTANCE Each pre-filled syringe contains 300 mg lanadelumab.

Disodium phosphate dihydrate, citric acid monohydrate, histidine, sodium chloride, polysorbate 80,

4. PHARMACEUTICAL FORM AND CONTENTS

Solution for injection

water for injections.

3.

1 unit pack of 2 pre-filled syringes (2 ml each), can't be sold separately.

5. METHOD AND ROUTE OF ADMINISTRATION

Subcutaneous use Read the package leaflet before use For single use only

LIST OF EXCIPIENTS

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

Store in a refrigerator.

Do not freeze.

Keep in the outer carton in order to protect from light.

18.

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

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER Takeda Pharmaceuticals International AG Ireland Branch Block 2 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 D02 HW68 Ireland 12. MARKETING AUTHORISATION NUMBER EU/1/18/1340/006 **13. BATCH NUMBER** Lot 14. GENERAL CLASSIFICATION FOR SUPPLY **15.** INSTRUCTIONS ON USE **16.** INFORMATION IN BRAILLE TAKHZYRO 300 mg **17. UNIQUE IDENTIFIER – 2D BARCODE**

UNIQUE IDENTIFIER - HUMAN READABLE DATA

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

PRE-FILLED SYRINGE MULTIPACK OUTER CARTON (INCLUDING BLUE-BOX)

1. NAME OF THE MEDICINAL PRODUCT

TAKHZYRO 300 mg solution for injection in pre-filled syringe lanadelumab

2. STATEMENT OF ACTIVE SUBSTANCE

Each pre-filled syringe contains 300 mg lanadelumab.

3. LIST OF EXCIPIENTS

Disodium phosphate dihydrate, citric acid monohydrate, histidine, sodium chloride, polysorbate 80, water for injections.

4. PHARMACEUTICAL FORM AND CONTENTS

Solution for injection

Multipack: 6 (3 packs of 2) pre-filled syringes of 2 ml

5. METHOD AND ROUTE OF ADMINISTRATION

Subcutaneous use Read the package leaflet before use For single use only

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

Do n	Store in a refrigerator. Do not freeze. Keep in the outer carton in order to protect from light.		
10.	SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE		
	unused medicinal product or waste material should be disposed of in accordance with local rements.		
11.	NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER		
Block 50-58 Dubl	HW68		
12.	MARKETING AUTHORISATION NUMBER		
EU/1	/18/1340/006		
13.	BATCH NUMBER		
Lot			
14.	GENERAL CLASSIFICATION FOR SUPPLY		
15.	INSTRUCTIONS ON USE		
16.	INFORMATION IN BRAILLE		
TAK	HZYRO 300 mg		
17.	UNIQUE IDENTIFIER – 2D BARCODE		
2D b	arcode carrying the unique identifier included.		

9.

SPECIAL STORAGE CONDITIONS

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

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MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS			
PRE-F	PRE-FILLED SYRINGE LABEL		
1.	NAME OF THE MEDICINAL PRODUCT AND ROUTE OF ADMINISTRATION		
TAKH lanadel SC	ZYRO 300 mg solution for injection lumab		
2.	METHOD OF ADMINISTRATION		
Read th	he package leaflet before use		
3.]	EXPIRY DATE		
EXP			
4.	BATCH NUMBER		
Lot			
5.	CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT		
2 ml			
6.	OTHER		

PARTICULARS TO APPEAR ON THE OUTER PACKAGING PRE-FILLED PEN – UNIT PACK CARTON 1. NAME OF THE MEDICINAL PRODUCT TAKHZYRO 300 mg solution for injection in pre-filled pen lanadelumab 2. STATEMENT OF ACTIVE SUBSTANCE Each pre-filled pen contains 300 mg lanadelumab. 3. LIST OF EXCIPIENTS Disodium phosphate dihydrate, citric acid monohydrate, histidine, sodium chloride, polysorbate 80, water for injections. 4. PHARMACEUTICAL FORM AND CONTENTS Solution for injection 1 pre-filled pen of 2 ml 2 pre-filled pens of 2 ml 5. METHOD AND ROUTE OF ADMINISTRATION Subcutaneous use Read the package leaflet before use. For single use only. 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**

SPECIAL STORAGE CONDITIONS

9.

Store in a refrigerator.

Do not freeze.

Keep in the outer carton in order to protect from light.

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

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Takeda Pharmaceuticals International AG Ireland Branch Block 2 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 D02 HW68 Ireland

12.	MARKETING	AUTHORISATION NUMBERS

EU/1/18/1340/010 1 pre-filled pen of 2 ml EU/1/18/1340/011 2 pre-filled pens of 2 ml

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

Push to open

16. INFORMATION IN BRAILLE

TAKHZYRO 300 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC

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PARTICULARS TO APPEAR ON THE OUTER PACKAGING PRE-FILLED PEN MULTIPACK INNER CARTON (NO BLUE-BOX) 1. NAME OF THE MEDICINAL PRODUCT TAKHZYRO 300 mg solution for injection in pre-filled pen lanadelumab 2. STATEMENT OF ACTIVE SUBSTANCE Each pre-filled pen contains 300 mg lanadelumab. 3. LIST OF EXCIPIENTS Disodium phosphate dihydrate, citric acid monohydrate, histidine, sodium chloride, polysorbate 80, water for injections. 4. PHARMACEUTICAL FORM AND CONTENTS Solution for injection 1 unit pack of 2 pre-filled pens (2 ml each), can't be sold separately. 5. METHOD AND ROUTE OF ADMINISTRATION Subcutaneous use Read the package leaflet before use. For single use only. 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

Store in a refrigerator.

Do not freeze.

Keep in the outer carton in order to protect from light.

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

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Takeda Pharmaceuticals International AG Ireland Branch Block 2 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 D02 HW68 Ireland

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	HW68
Irela	nd
12.	MARKETING AUTHORISATION NUMBER
EU/1	/18/1340/012
13.	BATCH NUMBER
Lot	
14.	GENERAL CLASSIFICATION FOR SUPPLY
15.	INSTRUCTIONS ON USE
Push	to open
16.	INFORMATION IN BRAILLE
TAK	HZYRO 300 mg
17.	UNIQUE IDENTIFIER – 2D BARCODE

UNIQUE IDENTIFIER - HUMAN READABLE DATA

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

PRE-FILLED PEN – MULTIPACK OUTER CARTON (INCLUDING BLUE BOX)

1. NAME OF THE MEDICINAL PRODUCT

Takhzyro 300 mg solution for injection in pre-filled pen lanadelumab

2. STATEMENT OF ACTIVE SUBSTANCE

Each pre-filled pen contains 300 mg lanadelumab.

3. LIST OF EXCIPIENTS

Disodium phosphate dihydrate, citric acid monohydrate, histidine, sodium chloride, polysorbate 80, water for injections.

4. PHARMACEUTICAL FORM AND CONTENTS

Solution for injection

Multipack: 6 (3 packs of 2) pre-filled pens of 2 ml

5. METHOD AND ROUTE OF ADMINISTRATION

Subcutaneous use

Read the package leaflet before use.

For single use only.

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

Store in a refrigerator.

Do not freeze.

Keep in the outer carton in order to protect from light.

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

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Takeda Pharmaceuticals International AG Ireland Branch Block 2 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 D02 HW68 Ireland

2D barcode carrying the unique identifier included.

PC SN NN

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

rierand
12. MARKETING AUTHORISATION NUMBER
EU/1/18/1340/012
13. BATCH NUMBER
Lot
14. GENERAL CLASSIFICATION FOR SUPPLY
15. INSTRUCTIONS ON USE
Push to open
16. INFORMATION IN BRAILLE
TAKHZYRO 300 mg
15 TANGLE IDENTIFIED AD BARGODE
17. UNIQUE IDENTIFIER – 2D BARCODE

PARTICULARS TO APPEAR SMALL IMMEDIATE PACKAGING UNITS		
SINGLE-DOSE PRE-FILLED PEN LABEL		
1. NAME OF THE MEDICINAL PRODUCT AND ROUTE OF ADMINISTRATION		
TAKHZYRO 300 mg solution for injection lanadelumab		
2. METHOD OF ADMINISTRATION		
Subcutaneous use Read the package leaflet before use. For single use only		
3. EXPIRY DATE		
EXP		
4. BATCH NUMBER		
Lot		
5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT		
2 ml		
6. OTHER		

NAME OF THE MEDICINAL PRODUCT TAKHZYRO 300 mg solution for injection lanadelumab 2. STATEMENT OF ACTIVE SUBSTANCE Each vial contains 300 mg lanadelumab. **3.** LIST OF EXCIPIENTS Disodium phosphate dihydrate, citric acid monohydrate, histidine, sodium chloride, polysorbate 80, water for injections. 4. PHARMACEUTICAL FORM AND CONTENTS Solution for injection 1 vial of 2 ml This pack also contains: 3 ml syringe 18 gauge access needle Injection needle 5. METHOD AND ROUTE OF ADMINISTRATION Subcutaneous use Read the package leaflet before use For single use only

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

VIAL - UNIT PACK CARTON

EXP

EXPIRY DATE

6.

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8.

SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT

OF THE SIGHT AND REACH OF CHILDREN

OTHER SPECIAL WARNING(S), IF NECESSARY

Keep out of the sight and reach of children.

9. SPECIAL STORAGE CONDITIONS Store in a refrigerator. Do not freeze. Keep in the outer carton in order to protect from light. 10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF **APPROPRIATE** Any unused medicinal product or waste material should be disposed of in accordance with local requirements. 11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER Takeda Pharmaceuticals International AG Ireland Branch Block 2 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 D02 HW68 Ireland 12. MARKETING AUTHORISATION NUMBER EU/1/18/1340/001 **13. BATCH NUMBER** Lot 14. GENERAL CLASSIFICATION FOR SUPPLY **15. INSTRUCTIONS ON USE 16.** INFORMATION IN BRAILLE TAKHZYRO 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 OUTER PACKAGING

VIAL - MULTIPACK INNER CARTON (NO BLUE-BOX)

1. NAME OF THE MEDICINAL PRODUCT

TAKHZYRO 300 mg solution for injection lanadelumab

2. STATEMENT OF ACTIVE SUBSTANCE

Each vial contains 300 mg lanadelumab.

3. LIST OF EXCIPIENTS

Disodium phosphate dihydrate, citric acid monohydrate, histidine, sodium chloride, polysorbate 80, water for injections.

4. PHARMACEUTICAL FORM AND CONTENTS

Solution for injection

1 vial of 2 ml component of a multipack, can't be sold separately.

This pack also contains: 3 ml syringe 18 gauge access needle Injection needle

5. METHOD AND ROUTE OF ADMINISTRATION

Subcutaneous use Read the package leaflet before use For single use only

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	
Store in a refrigerator.	
Do not freeze.	
Keep in the outer carton in order to protect from light.	
10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICIN OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRAPPROPRIATE	
Any unused medicinal product or waste material should be disposed of in accordar requirements.	nce with local
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION	HOLDER
Talenda Dhammaaanticala International AC Indent I D	
Takeda Pharmaceuticals International AG Ireland Branch Block 2 Miesian Plaza	
50-58 Baggot Street Lower	
Dublin 2	
D02 HW68	
Ireland	
12. MARKETING AUTHORISATION NUMBERS	
EU/1/18/1340/002 Multipack: 2 (2 packs of 1) vials of 2 ml	
EU/1/18/1340/003 Multipack: 6 (6 packs of 1) vials of 2 ml	
E0/1/16/1340/003 Willipack. 0 (0 packs of 1) viais of 2 iii	
13. BATCH NUMBER	
•	
Lot	
14. GENERAL CLASSIFICATION FOR SUPPLY	
15. INSTRUCTIONS ON USE	
16. INFORMATION IN BRAILLE	
TAKHZYRO 300 mg	
-	
17. UNIQUE IDENTIFIER – 2D BARCODE	

UNIQUE IDENTIFIER - HUMAN READABLE DATA

18.

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

VIAL - MULTIPACK OUTER CARTON (INCLUDING BLUE-BOX)

1. NAME OF THE MEDICINAL PRODUCT

TAKHZYRO 300 mg solution for injection lanadelumab

2. STATEMENT OF ACTIVE SUBSTANCE

Each vial contains 300 mg lanadelumab.

3. LIST OF EXCIPIENTS

Disodium phosphate dihydrate, citric acid monohydrate, histidine, sodium chloride, polysorbate 80, water for injections.

4. PHARMACEUTICAL FORM AND CONTENTS

Solution for injection

Multipack: 2 (2 packs of 1) vials of 2 ml. Multipack: 6 (6 packs of 1) vials of 2 ml.

Each single pack also contains: 3 ml syringe 18 gauge access needle Injection needle

5. METHOD AND ROUTE OF ADMINISTRATION

Subcutaneous use Read the package leaflet before use For single use only

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

Store in a refrigerator.

Do not freeze.

Keep in the outer carton in order to protect from light.

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

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Takeda Pharmaceuticals International AG Ireland Branch Block 2 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 D02 HW68 Ireland

12. MARKETING AUTHORISATION NUMBERS

EU/1/18/1340/002 Multipack: 2 (2 packs of 1) vials of 2 ml EU/1/18/1340/003 Multipack: 6 (6 packs of 1) vials of 2 ml

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

TAKHZYRO 300 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC

SN

NN

1. NAME OF THE MEDICINAL PRODUCT AND ROUTE OF ADMINISTRATION TAKHZYRO 300 mg solution for injection lanadelumab Subcutaneous use 2. METHOD OF ADMINISTRATION
TAKHZYRO 300 mg solution for injection lanadelumab Subcutaneous use
TAKHZYRO 300 mg solution for injection lanadelumab Subcutaneous use
lanadelumab Subcutaneous use
2. METHOD OF ADMINISTRATION
2. METHOD OF ADMINISTRATION
Read the package leaflet before use
3. EXPIRY DATE
EXP
4. BATCH NUMBER
Lot
5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT
2 ml
6. OTHER

B. PACKAGE LEAFLET

Package leaflet: Information for the user

TAKHZYRO 150 mg solution for injection in pre-filled syringe lanadelumab

Read all of this leaflet carefully before you give this medication to the child because it contains important information.

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

What is in this leaflet

- 1. What TAKHZYRO is and what it is used for
- 2. What you need to know before giving TAKHZYRO
- 3. How to use TAKHZYRO
- 4. Possible side effects
- 5. How to store TAKHZYRO
- 6. Contents of the pack and other information
- 7. Instructions for use

1. What TAKHZYRO is and what it is used for

TAKHZYRO contains the active substance lanadelumab.

What TAKHZYRO is used for

TAKHZYRO 150 mg is a medicine used in patients 2 years of age and older weighing less than 40 kg, to prevent angioedema attacks in patients with hereditary angioedema (HAE).

What hereditary angioedema (HAE) is

HAE is a condition which runs in families. With this condition the patients blood does not have enough of a protein called 'C1 inhibitor', or C1 inhibitor does not work properly. This leads to too much 'plasma kallikrein', which in turn produces higher levels of 'bradykinin' in the bloodstream. Too much bradykinin leads to symptoms of HAE like swelling and pain on the,

- hands and feet
- face, eyelids, lips or tongue
- voice-box (larynx), which may make breathing difficult
- genitals

How TAKHZYRO works

TAKHZYRO is a type of protein that blocks the activity of plasma kallikrein. This helps to reduce the amount of bradykinin in the bloodstream and prevents symptoms of HAE.

2. What you need to know before giving TAKHZYRO

Do not use TAKHZYRO

If your child or the child you are caring for is allergic to lanadelumab or any of the other ingredients of this medicine (listed in section 6).

Warnings and precautions

- Talk to the child's doctor, pharmacist or nurse before giving TAKHZYRO.
- If the child has a severe allergic reaction to TAKHZYRO with symptoms such as a rash, a tight chest, wheezing, or a fast heartbeat, tell the child's doctor, pharmacist or nurse **immediately.**

Keeping a record

It is strongly recommended that every time your child or the child you are caring for has a dose of TAKHZYRO, you write down the name and batch number of the medicine. This is so that you keep a record of the batches used.

Laboratory tests

Tell the child's doctor if they are using TAKHZYRO before they have laboratory tests to measure how well their blood is clotting. This is because TAKHZYRO in the blood may interfere with some laboratory tests, leading to inaccurate results.

Children

TAKHZYRO is not recommended for use in children under 2 years of age. This is because it has not been studied in this age group.

Other medicines and TAKHZYRO

Tell the child's doctor or pharmacist if the child is taking, or has recently taken or might take any other medicines.

TAKHZYRO is not known to affect other medicines or be affected by other medicines.

Pregnancy and breast-feeding

Patients who are pregnant or breast-feeding or think they may be pregnant should ask their doctor or pharmacist for advice before starting to use TAKHZYRO. There is limited information on the safety of TAKHZYRO use during pregnancy and breast-feeding. As a precautionary measure, it is preferable to avoid the use of lanadelumab during pregnancy and breast-feeding. Your doctor will discuss with you the risks and benefits of taking this medicine.

Driving and using machines

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

TAKHZYRO contains sodium

The medicine contains less than 1 mmol sodium (23 mg) per pre-filled syringe, that is to say essentially 'sodium-free'.

3. How to use TAKHZYRO

TAKHZYRO is provided in single-use pre-filled syringes as ready-to-use solution. The treatment for your child or the child you are caring for will be started and managed under the supervision of a doctor experienced in the care of patients with HAE.

Always use this medicine exactly as described in this leaflet or as the child's doctor, pharmacist or nurse has told you. Check with their doctor, pharmacist or nurse if you are not sure or have any further questions on the use of this medicine.

How much TAKHZYRO to use

For children 2 to less than 12 years of age, the recommended dose is based on body weight:

Body Weight (kg)	Recommended Starting Dose	Dose Adjustment
10 to less than 20 kg	150 mg lanadelumab every 4 weeks	A dose increase to 150 mg lanadelumab every 3 weeks may be considered in patients with insufficient control of attacks
20 to less than 40 kg	150 mg lanadelumab every 2 weeks	A dose reduction to 150 mg lanadelumab every 4 weeks may be considered in patients who are stably attack free on treatment
40 kg or more	300 mg lanadelumab every 2 weeks	A dose reduction to 300 mg lanadelumab every 4 weeks may be considered in patients who are stably attack free on treatment

- For patients with a body weight of 20 to less than 40 kg who have not had an attack for a long period, the doctor may allow your child or the child you are caring for to continue with the same dose when reaching 12 years of age.

For adults and adolescents 12 to less than 18 years of age with a body weight of less than 40 kg:

- The recommended starting dose is 300 mg lanadelumab every 2 weeks. If you have not had an attack for a long period, your doctor may change the dose to 300 mg lanadelumab every 4 weeks, especially if you have a low body weight.
 - A starting dose of 150 mg lanadelumab every 2 weeks may also be considered. If you have not had an attack for a long period, your doctor may change the dose to 150 mg lanadelumab every 4 weeks.

How to inject TAKHZYRO

TAKHZYRO should be injected by a healthcare provider or caregiver. Caregiver must carefully read and follow the instructions in section 7, "Instructions for use".

- TAKHZYRO is for injection under the skin ('subcutaneous injection').
- The injection can be given either by a healthcare provider or a caregiver.
- A doctor, pharmacist or nurse should show you how to prepare and inject TAKHZYRO properly before you give it for the first time. Do not inject until you have been trained to inject the medicine.
- Insert the needle into the fatty tissue in the tummy (abdomen), thigh or upper arm.

- Inject the medicine in a different place each time.
- Use each pre-filled syringe of TAKHZYRO only once.

If you use more TAKHZYRO than you should

If the child has received more TAKHZYRO than they should or the dose has been given sooner than according to the doctor's prescription, inform the doctor.

If you forget to use TAKHZYRO

If a dose of TAKHZYRO is missed, inject the dose as soon as possible. The next dose scheduled may need to be adjusted based on the intended dosing frequency to ensure

- at least 10 days between doses for patients on every 2 weeks dosing schedule,
- at least 17 days between doses for patients on every 3 weeks dosing schedule,
- at least 24 days between doses for patients on every 4 weeks dosing schedule.

If you are not sure when to inject TAKHZYRO after a missed dose, ask the child's doctor, pharmacist or nurse.

If you stop giving TAKHZYRO

The decision to stop using TAKHZYRO should be discussed with the child's doctor. The symptoms may return upon stopping treatment.

If you have any further questions on the use of this medicine, ask the child's doctor, pharmacist or nurse.

4. Possible side effects

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

If the child has a severe allergic reaction to TAKHZYRO with symptoms such as a rash, tight chest, wheezing, or a fast heart beat, tell their doctor, pharmacist or nurse **immediately.**

Tell their doctor, pharmacist or nurse if you or the child notice any of the following side effects.

Very common (may affect more than 1 in 10 people):

• Reactions where the injection is given – symptoms include pain, skin redness, bruising, discomfort, swelling, bleeding, itching, hardening of skin, tingling, warmth and rash.

Common (may affect up to 1 in 10 people):

- Allergic reactions including itching, discomfort and tingling of the tongue
- Dizziness, feeling faint
- Raised skin rash
- Muscle pain
- Blood tests showing liver changes

Reporting of side effects

If your child or the child you are caring for gets any side effects, talk to their doctor, pharmacist or nurse. 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 TAKHZYRO

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 label and on the carton after EXP. The expiry date refers to the last day of that month.

TAKHZYRO 150 mg solution for injection in pre-filled syringe

Store in a refrigerator (2 °C-8 °C). Do not freeze. Keep the pre-filled syringe in the outer carton in order to protect from light.

Pre-filled syringes may be stored below 25 °C for a single period of 14 days, but not beyond the expiry date.

Do not return TAKHZYRO to refrigerated storage after storage at room temperature.

When one pre-filled syringe from a multi-pack is removed from refrigeration, return the remaining pre-filled syringes to the refrigerator until future use when needed.

Do not use this medicine if you notice signs of deterioration such as particles in the pre-filled syringe or changed colour of the injection solution.

Do not throw away any medicines via wastewater or household waste. Ask the 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 TAKHZYRO contains

- The active substance is lanadelumab. Each pre-filled syringe contains 150 mg of lanadelumab in 1 ml solution.
- The other ingredients are disodium phosphate dihydrate, citric acid monohydrate, histidine, sodium chloride, polysorbate 80 and water for injections see section 2 "TAKHZYRO contains sodium"

What TAKHZYRO looks like and contents of the pack

TAKHZYRO is presented as a clear, colourless to slightly yellow solution for injection in a pre-filled syringe.

TAKHZYRO is available as:

- a single pack containing one 1 ml pre-filled syringe in a carton
- a single pack containing two 1 ml pre-filled syringes in a carton
- in multipacks comprising 3 cartons, each carton containing two 1 ml pre-filled syringes.

Not all pack sizes may be marketed.

Marketing Authorisation Holder and Manufacturer

Marketing Authorisation Holder

Takeda Pharmaceuticals International AG Ireland Branch Block 2 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 D02 HW68 Ireland

Manufacturer

Takeda Pharmaceuticals International AG Ireland Branch Block 2 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 D02 HW68 Ireland

Shire Pharmaceuticals Ireland Limited Blocks 2 & 3 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 Ireland

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

Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site: https://www.ema.europa.eu/. There are also links to other websites about rare diseases and treatments.

7. Instructions for use

Be sure that you read, understand, and follow the Instructions for Use before injecting TAKHZYRO. Contact your healthcare provider if you have any questions.

Intended use

The TAKHZYRO pre-filled syringe is a fixed dose (150 mg/1 ml), ready-to-use, disposable, needle-based injection device intended for subcutaneous administration of the drug product by healthcare providers or caregivers. Self-administration is not recommended in paediatric patients (2 to less than 12 years).

Storing TAKHZYRO

- Store the TAKHZYRO pre-filled syringe in the refrigerator at 2 °C to 8 °C. **Do not** freeze.
- Pre-filled syringe removed from refrigeration should be stored below 25 °C and used within 14 days. Do not return TAKHZYRO to refrigerated storage after storage at room temperature.
- When one pre-filled syringe from a multi-pack is removed from refrigeration, return the remaining pre-filled syringes to the refrigerator until future use when needed.
- Store TAKHZYRO in the original carton to protect the pre-filled syringe from light.
- Throw away (discard) the TAKHZYRO pre-filled syringe if it has been kept out of the refrigerator, frozen, or not kept in the original carton protected from light.
- **Do not** shake TAKHZYRO.

Keep TAKHZYRO and all medicines out of the reach of children.

Parts of your TAKHZYRO pre-filled syringe before use (Figure A).

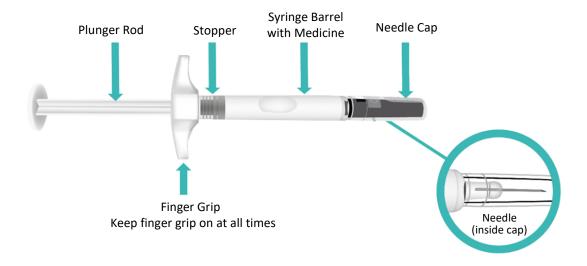


Figure A: TAKHZYRO pre-filled syringe

Step 1: Prepare for your injection

a. Gather an alcohol swab, cotton ball or gauze pad, adhesive bandage and a sharps disposal container (**Figure B**) and place the supplies on a clean, flat, surface in a well-lit area. These supplies are not included in the TAKHZYRO packaging.



Figure B: Supplies

- b. Remove the TAKHZYRO pre-filled syringe carton from the refrigerator 15 minutes before injecting.
 - **Do not** use if the seal on the carton is open or broken.
 - Your medicine is sensitive to warm temperatures. Do not use heat sources such as a microwave or hot water to warm your TAKHZYRO pre-filled syringe.



- c. Open the carton. Hold the syringe barrel and remove the TAKHZYRO pre-filled syringe from the tray (**Figure C**).
 - **Do not** remove the needle cap until you are ready to inject.
 - **Do not** touch or push the plunger rod until you are ready to inject.



Figure C: Remove pre-filled syringe

- d. Wash your hands with soap and water (**Figure D**). Dry your hands completely.
 - **Do not** touch **any** surface or body part after washing your hands before the injection.



Figure D: Wash hands

- e. Check the expiration date (EXP) on the syringe barrel (Figure E).
 - Do not use the TAKHZYRO prefilled syringe if the expiration date has passed. If the TAKHZYRO pre-filled syringe is expired throw it away (discard) in a sharps container and contact your healthcare provider.



Figure E: Location of expiration date

- f. **Inspect** the TAKHZYRO pre-filled syringe for any damage. The medicine inside the syringe barrel should be colorless to slightly yellow (**Figure F**).
 - Do not use the TAKHZYRO pre-filled syringe if the syringe is damaged or cracked.
 - Do not use the TAKHZYRO pre-filled syringe if the medicine is discolored, cloudy, or has flakes or particles in it.
 - You may see air bubbles in the TAKHZYRO pre-filled syringe. This is normal and will not affect your dose.

If you cannot use the pre-filled syringe, contact your healthcare provider.

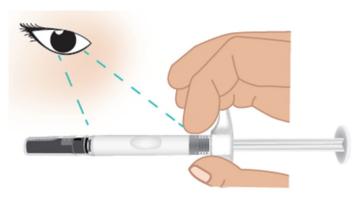


Figure F: Inspect the pre-filled syringe

Step 2: Select and prepare injection site

- a. TAKHZYRO should be injected by a healthcare provider or caregiver into the following sites only (**Figure G**):
 - o upper arms
 - o stomach area (abdomen)
 - o thighs
 - **Do not** inject **into** an area of your child's body where the skin is irritated, red, bruised, or infected.
 - The area you choose for injection should be at least 5 cm away from any scars or your child's belly button (navel).

Important:

Rotate injection sites to keep skin healthy. Each new injection should be given at least 3 cm from the last site you used.

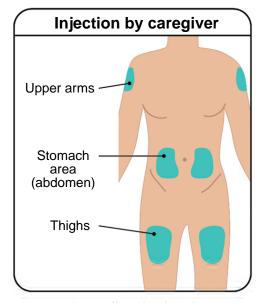


Figure G: Injection sites

- b. Clean the injection site with an alcohol swab and allow it to dry completely (**Figure H**).
 - **Do not** fan or blow on the clean site.
 - **Do not** touch the clean site again before giving your injection.



Figure H: Clean injection site

- c. Firmly hold the middle of the TAKHZYRO pre-filled syringe with one hand, and with the other hand, gently pull the needle cap straight off (**Figure I**).
 - Do not touch or push the plunger rod until you are ready to inject.
 - Do not use the TAKHZYRO pre-filled syringe if it has been dropped without the needle cap on.
 - **Do not** use the TAKHZYRO pre-filled syringe if the needle looks damaged or bent.
 - **Do not** touch the needle or allow the needle to touch anything.

You may see air bubbles, this is normal. **Do not** try to remove the air bubbles.

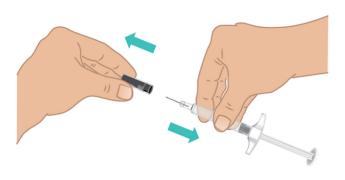


Figure I: Remove needle cap

- d. Throw away the needle cap in your trash or in your sharps container.
 - **Do not** recap the needle to avoid a needle-stick injury.

Step 3: Inject TAKHZYRO

a. Grip the TAKHZYRO pre-filled syringe in one hand like a pencil (**Figure J**). Avoid touching the needle or pushing on the plunger rod.



Figure J: Grip pre-filled syringe

b. With your other hand, gently pinch about 3 cm fold of skin at the cleaned injection site.
Keep pinching until the injection is complete and the needle is removed (Figure K).

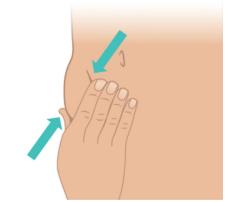


Figure K: Pinch a 3 cm fold of skin

c. Using a quick dart-like motion, insert the needle at a 45-to-90-degree angle. Make sure to keep the needle in place (**Figure L**).

Important: Inject directly into the fatty layer under the skin (subcutaneous injection).

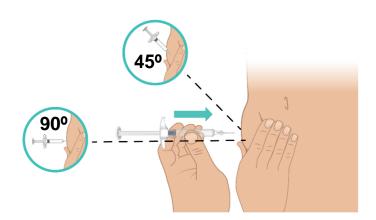


Figure L: Insert the needle

d. Slowly push the plunger rod all the way down until it stops (Figure M).

Important: Do not withdraw the needle until all of the medicine is injected and the syringe barrel is empty.

When the injection is complete, you will see the stopper at the bottom of the syringe barrel (Figure N).

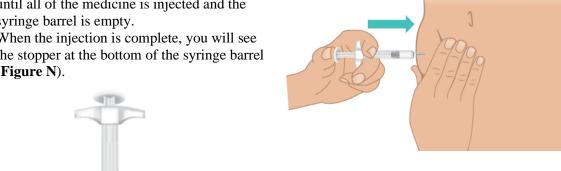


Figure M: Push the plunger rod all the way down

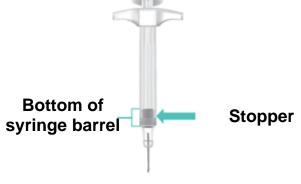


Figure N: Stopper at the bottom of the syringe barrel

- e. Slowly withdraw the needle while maintaining the syringe at the same angle. Gently release the fold of skin.
- f. Press a cotton ball or gauze pad over the injection site if needed and hold for 10 seconds.
 - **Do not** rub the injection site. There may be a small amount of blood where you injected. This is normal.
 - Cover the injection site with an adhesive bandage if needed.

Step 4: Throw away (dispose of) TAKHZYRO prefilled syringe

- a. Put your used TAKHZYRO pre-filled syringe in a sharps disposal container right away after use (Figure O).
 - Do not recap the needle to avoid a needlestick injury.
 - Do not reuse the TAKHZYRO pre-filled syringe or any of your injection supplies.
 - **Do not** throw away (dispose of) the TAKHZYRO pre-filled syringe in your household trash.
 - **Do not** touch the needle.
 - **Important:** Always keep the sharps disposal container out of the reach of children.



Figure O: Dispose in a sharps container

Package leaflet: Information for the user

TAKHZYRO 300 mg solution for injection in pre-filled syringe lanadelumab

Read all of this leaflet carefully before you start using 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, pharmacist or nurse.
- 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, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

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

1. What TAKHZYRO is and what it is used for

TAKHZYRO contains the active substance lanadelumab.

What TAKHZYRO is used for

TAKHZYRO is a medicine used in patients 2 years and older to prevent angioedema attacks in patients with hereditary angioedema (HAE).

What hereditary angioedema (HAE) is

HAE is a condition which runs in families. With this condition your blood does not have enough of a protein called 'C1 inhibitor', or C1 inhibitor does not work properly. This leads to too much 'plasma kallikrein', which in turn produces higher levels of 'bradykinin' in your bloodstream. Too much bradykinin leads to symptoms of HAE like swelling and pain on the,

- hands and feet
- face, eyelids, lips or tongue
- voice-box (larynx), which may make breathing difficult
- genitals

How TAKHZYRO works

TAKHZYRO is a type of protein that blocks the activity of plasma kallikrein. This helps to reduce the amount of bradykinin in your bloodstream and prevents symptoms of HAE.

2. What you need to know before you use TAKHZYRO

Do not use TAKHZYRO

If you are allergic to lanadelumab or any of the other ingredients of this medicine (listed in section 6).

Warnings and precautions

- Talk to your doctor, pharmacist or nurse before using TAKHZYRO.
- If you have a severe allergic reaction to TAKHZYRO with symptoms such as a rash, a tight chest, wheezing, or a fast heart beat, tell your doctor, pharmacist or nurse **immediately.**

Keeping a record

It is strongly recommended that every time you have a dose of TAKHZYRO, you write down the name and batch number of the medicine. This is so that you keep a record of the batches used.

Laboratory tests

Tell your doctor if you are using TAKHZYRO before you have laboratory tests to measure how well your blood is clotting. This is because TAKHZYRO in the blood may interfere with some laboratory tests, leading to inaccurate results

Children and adolescents

TAKHZYRO is not recommended for use in children under 2 years of age. This is because it has not been studied in this age group.

Other medicines and TAKHZYRO

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines.

TAKHZYRO is not known to affect other medicines or be affected by other medicines.

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 starting to use TAKHZYRO. There is limited information on the safety of TAKHZYRO use during pregnancy and breast-feeding. As a precautionary measure, it is preferable to avoid the use of lanadelumab during pregnancy and breast-feeding. Your doctor will discuss with you the risks and benefits of taking this medicine.

Driving and using machines

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

TAKHZYRO contains sodium

The medicine contains less than 1 mmol sodium (23 mg) per pre-filled syringe, that is to say essentially 'sodium-free'.

3. How to use TAKHZYRO

TAKHZYRO is provided in single-use pre-filled syringes as ready-to-use solution. Your treatment will be started and managed under the supervision of a doctor experienced in the care of patients with HAE.

Always use this medicine exactly as described in this leaflet or as your doctor, pharmacist or nurse has told you. Check with your doctor, pharmacist or nurse if you are not sure or have any further questions on the use of this medicine.

How much TAKHZYRO to use

For adults and adolescents 12 to less than 18 years of age:

- The recommended starting dose is 300 mg lanadelumab every 2 weeks. If you have not had an attack for a long period, your doctor may change the dose to 300 mg lanadelumab every 4 weeks, especially if you have a low body weight.
- In patients with a body weight less than 40 kg, a starting dose of 150 mg lanadelumab every 2 weeks may also be considered. If you have not had an attack for a long period, your doctor may change the dose to 150 mg lanadelumab every 4 weeks.

For children 2 to less than 12 years of age, the recommended dose is based on body weight:

Body Weight (kg)	Recommended Starting Dose	Dose Adjustment
10 to less than 20 kg	150 mg lanadelumab every 4 weeks	A dose increase to 150 mg lanadelumab every 3 weeks may be considered in patients with insufficient control of attacks
20 to less than 40 kg	150 mg lanadelumab every 2 weeks	A dose reduction to 150 mg lanadelumab every 4 weeks may be considered in patients who are stably attack free on treatment
40 kg or more	300 mg lanadelumab every 2 weeks	A dose reduction to 300 mg lanadelumab every 4 weeks may be considered in patients who are stably attack free on treatment

 For patients with a body weight of 20 to less than 40 kg who have not had an attack for a long period, the doctor may allow your child or the child you are caring for to continue with the same dose when reaching 12 years of age.

How to inject TAKHZYRO

If you inject TAKHZYRO yourself or if your caregiver injects it, you or your caregiver must carefully read and follow the instructions in section 7, "Instructions for use".

- TAKHZYRO is for injection under the skin ('subcutaneous injection').
- The injection can be given either by yourself or a caregiver for patients 12 years and older
- The injection can be given by either healthcare provider or caregiver for patients 2 to less than 12 years of age.
- A doctor, pharmacist or nurse should show you how to prepare and inject TAKHZYRO
 properly before you use it for the first time. Do not inject yourself or someone else until you
 have been trained to inject the medicine.

- Insert the needle into the fatty tissue in the tummy (abdomen), thigh or upper arm.
- Inject the medicine in a different place each time.
- Use each pre-filled syringe of TAKHZYRO only once.

If you use more TAKHZYRO than you should

Tell your doctor, pharmacist or nurse if you take too much TAKHZYRO.

If you forget to use TAKHZYRO

If you miss a dose of TAKHZYRO, inject your dose as soon as possible. The next dose scheduled may need to be adjusted based on the intended dosing frequency to ensure

- at least 10 days between doses for patients on every 2 weeks doing schedule,
- at least 17 days between doses for patients on every 3 weeks dosing schedule,
- at least 24 days between doses for patients on every 4 weeks dosing schedule.

If you are not sure when to inject TAKHZYRO after a missed dose, ask your doctor, pharmacist or nurse.

If you stop using TAKHZYRO

It is important that you keep injecting TAKHZYRO as instructed by your doctor even if you feel better. If you have any further questions on the use of this medicine, ask your doctor, pharmacist or nurse.

4. Possible side effects

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

If you have a severe allergic reaction to TAKHZYRO with symptoms such as a rash, tight chest, wheezing, or a fast heart beat, tell your doctor, pharmacist or nurse **immediately.**

Tell your doctor, pharmacist or nurse if you notice any of the following side effects.

Very common (may affect more than 1 in 10 people):

• Reactions where the injection is given – symptoms include pain, skin redness, bruising, discomfort, swelling, bleeding, itching, hardening of skin, tingling, warmth and rash.

Common (may affect up to 1 in 10 people):

- Allergic reactions including itching, discomfort and tingling of the tongue
- Dizziness, feeling faint
- Raised skin rash
- Muscle pain
- Blood tests showing liver changes

Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. 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 <u>Appendix V</u>. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store TAKHZYRO

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 label and on the carton after EXP. The expiry date refers to the last day of that month.

TAKHZYRO 300 mg solution for injection in pre-filled syringe

Store in a refrigerator (2 °C-8 °C). Do not freeze. Keep the pre-filled syringe in the outer carton in order to protect from light.

Pre-filled syringes may be stored below 25 °C for a single period of 14 days, but not beyond the expiry date.

Do not return TAKHZYRO to refrigerated storage after storage at room temperature.

When one pre-filled syringe from a multi-pack is removed from refrigeration, return the remaining pre-filled syringes to the refrigerator until future use when needed.

Do not use this medicine if you notice signs of deterioration such as particles in the pre-filled syringe or changed colour of the injection solution.

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 TAKHZYRO contains

- The active substance is lanadelumab. Each pre-filled syringe contains 300 mg of lanadelumab in 2 ml solution.
- The other ingredients are disodium phosphate dihydrate, citric acid monohydrate, histidine, sodium chloride, polysorbate 80 and water for injections see section 2 "TAKHZYRO contains sodium"

What TAKHZYRO looks like and contents of the pack

TAKHZYRO is presented as a clear, colourless to slightly yellow solution for injection in a pre-filled syringe.

TAKHZYRO is available as:

- a single pack containing one 2 ml pre-filled syringe in a carton
- a single pack containing two 2 ml pre-filled syringes in a carton
- in multipacks comprising 3 cartons, each carton containing two 2 ml pre-filled syringes.

Not all pack sizes may be marketed.

Marketing Authorisation Holder and Manufacturer

Marketing Authorisation Holder

Takeda Pharmaceuticals International AG Ireland Branch Block 2 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 D02 HW68

Ireland

Manufacturer

Takeda Pharmaceuticals International AG Ireland Branch Block 2 Miesian Plaza 50-58 Baggot Street Lower Dublin 2 D02 HW68 Ireland

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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

Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site: https://www.ema.europa.eu/. There are also links to other websites about rare diseases and treatments.

7. Instructions for use

Be sure that you read, understand, and follow the Instructions for Use before injecting TAKHZYRO. Contact your healthcare provider if you have any questions.

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Intended use

The TAKHZYRO pre-filled syringe is a fixed dose (300 mg/2 ml), ready-to-use, disposable, needle-based injection device intended for subcutaneous administration of the drug product by healthcare providers, caregivers, or by self-administration (for patients 12 years and older).

Storing TAKHZYRO

- Store the TAKHZYRO pre-filled syringe in the refrigerator at 2 °C to 8 °C. **Do not** freeze.
- Pre-filled syringe removed from refrigeration should be stored below 25 °C and used within 14 days. Do not return TAKHZYRO to refrigerated storage after storage at room temperature.
- When one pre-filled syringe from a multi-pack is removed from refrigeration, return the remaining pre-filled syringes to the refrigerator until future use when needed.
- Store TAKHZYRO in the original carton to protect the pre-filled syringe from light.
- Throw away (discard) the TAKHZYRO pre-filled syringe if it has been kept out of the refrigerator, frozen, or not kept in the original carton protected from light.
- **Do not** shake TAKHZYRO.
- Keep TAKHZYRO and all medicines out of the reach of children.

Parts of your TAKHZYRO pre-filled syringe before use (Figure A).

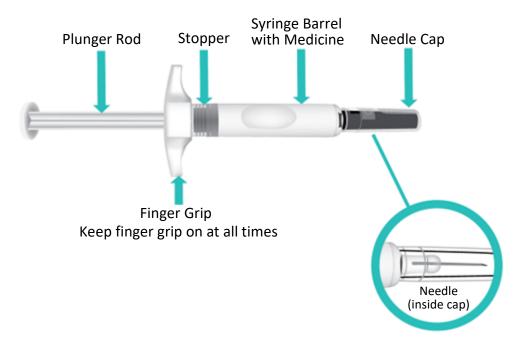


Figure A: TAKHZYRO pre-filled syringe

STEP 1: Prepare for your injection

a. Gather an alcohol swab, cotton ball or gauze pad, adhesive bandage and a sharps disposal container (**Figure B**) and place on a clean, flat, surface in a well-lit area. These supplies are not included in the TAKHZYRO packaging.

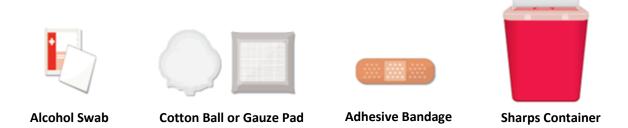


Figure B: Supplies

- b. Remove TAKHZYRO pre-filled syringe from refrigerator.
 - **Do not** use the TAKHZYRO pre-filled syringe if the tamper evident seal is open or broken.
 - Before you prepare your injection, allow the pre-filled syringe to reach room temperature for at least 15 minutes.
 - Your medicine is sensitive to warm temperatures. **Do not** use heat sources such as a microwave or hot water to warm your TAKHZYRO pre-filled syringe.
 - **Do not** remove the needle cap until you are ready to inject.



c. Open the carton. Hold the syringe barrel and remove the TAKHZYRO pre-filled syringe from the tray (**Figure C**).

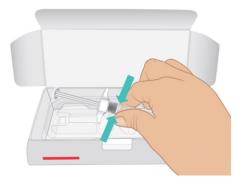


Figure C: Remove pre-filled syringe

- d. Wash your hands with soap and water (Figure D). Dry your hands completely
 - **Do not** touch any surface or body part after washing your hands before the injection.



Figure D: Wash hands

e. **Check the expiration date (EXP)** on the syringe barrel (**Figure E**). **Do not** use the TAKHZYRO pre-filled syringe if the expiration date has passed. If the TAKHZYRO pre-filled syringe is expired, throw it away (discard) in a sharps container and contact your healthcare provider.

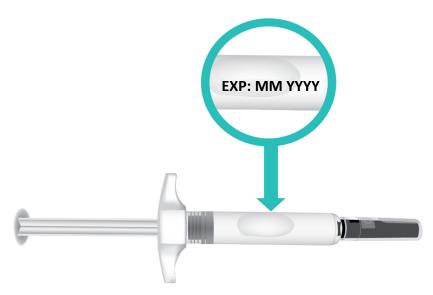


Figure E: Location of expiration date

- f. **Inspect** the TAKHZYRO pre-filled syringe for any damage and make sure the medicine is colourless to slightly yellow (**Figure F**).
 - **Do not** use product if syringe is damaged e.g., cracked syringe.
 - **Do not** use the TAKHZYRO pre-filled syringe if the medicine is discoloured, cloudy or has flakes or particles in it.
 - You might see air bubbles in the TAKHZYRO pre-filled syringe. This is normal and will not affect your dose.

If you cannot use the pre-filled syringe, contact your healthcare provider.

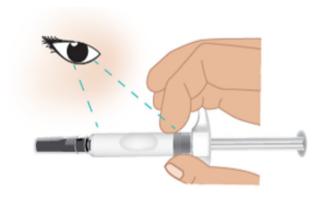


Figure F: Inspect the pre-filled syringe

STEP 2: Select and prepare your injection site

- a. The TAKHZYRO pre-filled syringe should be injected into the following sites only (**Figure G**):
 - o stomach area (abdomen)
 - o thighs
 - o upper arms (only if healthcare provider or caregiver is giving you the injection)
 - **Do not** inject into an area of your body where the skin is irritated, reddened, bruised, or infected.
 - The area you choose for injection should be at least 5 cm away from any scars or your belly button (navel).

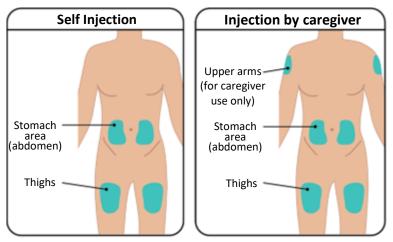


Figure G: Injection sites

Important:

Rotate injection sites to keep skin healthy. Each new injection should be given at least 3 cm from the last site you used.

- b. Clean the injection site with an alcohol swab and allow it to dry completely (**Figure H**).
 - **Do not** fan or blow on the clean site.
 - **Do not** touch this area again before giving your injection.



Figure H: Clean injection site

- c. Firmly hold the middle of the TAKHZYRO pre-filled syringe with one hand and with the other hand, gently pull the needle cap straight off. Throw away the needle cap in your trash or in your sharps container (**Figure I**).
 - **Do not** touch or push the plunger rod until you are ready to inject.
 - **Do not** recap your TAKHZYRO pre-filled syringe to avoid a needle stick injury.
 - **Do not** use the TAKHZYRO pre-filled syringe if it has been dropped without the needle cap.
 - **Do not** use the TAKHZYRO pre-filled syringe if the needle looks damaged or bent.
 - **Do not** touch the needle or allow the needle to touch anything.

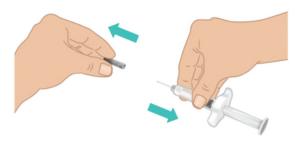


Figure I: Remove the needle cap

STEP 3: Inject TAKHZYRO

a. Grip the TAKHZYRO pre-filled syringe in one hand like a pencil (**Figure J**). Avoid touching the needle or pushing on the plunger.



Figure J: Grip pre-filled syringe

- b. With your other hand, gently pinch about 3 cm fold of skin at the cleaned injection site.
 - Keep pinching until the injection is complete and the needle is removed (**Figure K**).

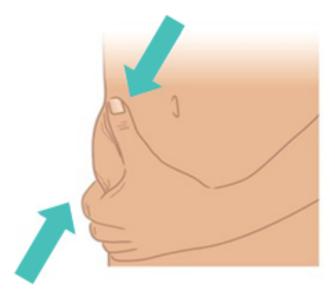


Figure K: Pinch 3 cm fold of skin

c. With one quick, short motion, push needle all the way into skin at a 45-to-90 degree angle. Make sure to keep the needle in place (**Figure L**).

Important: Inject directly into the fatty layer under the skin (subcutaneous injection).

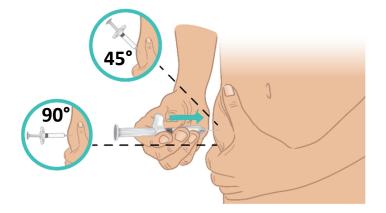


Figure L: Insert the needle

- d. Slowly push the plunger rod all the way down until it stops (Figure M).
- e. Slowly withdraw needle while maintaining the syringe at the same angle. Gently release fold of skin.

Important: Do not withdraw the needle until all of the medicine is injected and the syringe barrel is empty.

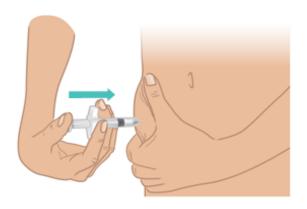


Figure M: Push the plunger rod all the way down

When the injection is complete, you will see the stopper at the bottom of the syringe barrel (**Figure N**).

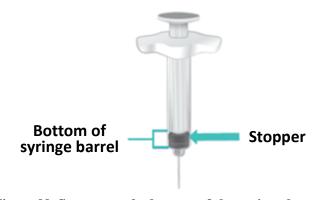


Figure N: Stopper at the bottom of the syringe barrel

- f. Press cotton ball or gauze pad over injection site if needed and hold for 10 seconds.
 - **Do not** rub the injection site. You may have a minor bleeding. This is normal.
 - Cover injection site with an adhesive bandage if needed.
- g. Throw away (dispose) your used TAKHZYRO pre-filled syringe.
 - Put your used TAKHZYRO pre-filled syringe in a sharps disposal container right away after use (**Figure O**).
 - **Do not** recap the needle to avoid needle stick injury.
 - Do not reuse the TAKHZYRO pre-filled syringe and any of your injection supplies.
 - **Do not** touch the needle.

Important: Always keep the sharps disposal container out of the reach of children.



Figure O: Dispose in a sharps container

Package leaflet: Information for the user

TAKHZYRO 300 mg solution for injection in pre-filled pen lanadelumab

Read all of this leaflet carefully before you start using 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, pharmacist or nurse.
- 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, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

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

1. What TAKHZYRO is and what it is used for

TAKHZYRO contains the active substance lanadelumab.

What TAKHZYRO is used for

TAKHZYRO is a medicine used in patients 2 years and older to prevent angioedema attacks in patients with hereditary angioedema (HAE).

What hereditary angioedema (HAE) is

HAE is a condition which runs in families. With this condition your blood does not have enough of a protein called 'C1 inhibitor', or C1 inhibitor does not work properly. This leads to too much 'plasma kallikrein', which in turn produces higher levels of 'bradykinin' in your bloodstream. Too much bradykinin leads to symptoms of HAE like swelling and pain on the,

- hands and feet
- face, eyelids, lips or tongue
- voice-box (larynx), which may make breathing difficult
- genitals

How TAKHZYRO works

TAKHZYRO is a type of protein that blocks the activity of plasma kallikrein. This helps to reduce the amount of bradykinin in your bloodstream and prevents symptoms of HAE.

2. What you need to know before you use TAKHZYRO

Do not use TAKHZYRO

If you are allergic to lanadelumab or any of the other ingredients of this medicine (listed in section 6).

Warnings and precautions

- Talk to your doctor, pharmacist or nurse before using TAKHZYRO.
- If you have a severe allergic reaction to TAKHZYRO with symptoms such as a rash, a tight chest, wheezing, or a fast heart beat, tell your doctor, pharmacist or nurse **immediately.**

Keeping a record

It is strongly recommended that every time you have a dose of TAKHZYRO, you write down the name and batch number of the medicine. This is so that you keep a record of the batches used.

Laboratory tests

Tell your doctor if you are using TAKHZYRO before you have laboratory tests to measure how well your blood is clotting. This is because TAKHZYRO in the blood may interfere with some laboratory tests, leading to inaccurate results.

Children and adolescents

TAKHZYRO is not recommended for use in children under 2 years of age. This is because it has not been studied in this age group.

Other medicines and TAKHZYRO

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines.

TAKHZYRO is not known to affect other medicines or be affected by other medicines.

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 starting to use TAKHZYRO. There is limited information on the safety of TAKHZYRO use during pregnancy and breast-feeding. As a precautionary measure, it is preferable to avoid the use of lanadelumab during pregnancy and breast-feeding. Your doctor will discuss with you the risks and benefits of taking this medicine.

Driving and using machines

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

TAKHZYRO contains sodium

The medicine contains less than 1 mmol sodium (23 mg) per pre-filled pen, that is to say essentially 'sodium-free'.

3. How to use TAKHZYRO

TAKHZYRO is provided in single-use pre-filled pens as ready-to-use solution. Your treatment will be started and managed under the supervision of a doctor experienced in the care of patients with HAE.

Always use this medicine exactly as described in this leaflet or as your doctor, pharmacist or nurse has told you. Check with your doctor, pharmacist or nurse if you are not sure or have any further questions on the use of this medicine.

How much TAKHZYRO to use

For adults and adolescents 12 to less than 18 years of age:

- The recommended starting dose is 300 mg lanadelumab every 2 weeks. If you have not had an attack for a long period, your doctor may change the dose to 300 mg lanadelumab every 4 weeks, especially if you have a low body weight.
- In patients with a body weight less than 40 kg, a starting dose of 150 mg lanadelumab every 2 weeks may also be considered. However, the 150 mg pre-filled syringe must be used because the 300 mg pre-filled pen cannot be used to administer 150 mg lanadelumab.

For children 2 to less than 12 years of age:

The recommended dose is based on body weight and should only be administered via a prefilled syringe or vial. The pre-filled pen has not been studied in children 2 to less than 12 years of age and therefore should not be used.

How to inject TAKHZYRO

If you inject TAKHZYRO yourself or if your caregiver injects it, you or your caregiver must carefully read and follow the instructions in section 7, "Instructions for use".

- TAKHZYRO is for injection under the skin ('subcutaneous injection').
- The injection can be given either by yourself or a caregiver for patients 12 years and older.
- A doctor, pharmacist or nurse should show you how to prepare and inject TAKHZYRO properly before you use it for the first time. Do not inject yourself or someone else until you have been trained to inject the medicine.
- Administer TAKHZYRO with the pre-filled pen into the fatty tissue in the tummy (abdomen), thigh or upper arm.
- Inject the medicine in a different place each time.
- Use each pre-filled pen of TAKHZYRO only once.

If you use more TAKHZYRO than you should

Tell your doctor, pharmacist or nurse if you take too much TAKHZYRO.

If you forget to use TAKHZYRO

If you miss a dose of TAKHZYRO, inject your dose as soon as possible. The next dose scheduled may need to be adjusted based on the intended dosing frequency to ensure:

- at least 10 days between doses for patients on every 2 weeks dosing schedule,
- at least 24 days between doses for patients on every 4 weeks dosing schedule.

If you are not sure when to inject TAKHZYRO after a missed dose, ask your doctor, pharmacist or nurse.

If you stop using TAKHZYRO

It is important that you keep injecting TAKHZYRO as instructed by your doctor even if you feel better. If you have any further questions on the use of this medicine, ask your doctor, pharmacist or nurse.

4. Possible side effects

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

If you have a severe allergic reaction to TAKHZYRO with symptoms such as a rash, tight chest, wheezing, or a fast heart beat, tell your doctor, pharmacist or nurse **immediately.**

Tell your doctor, pharmacist or nurse if you notice any of the following side effects.

Very common (may affect more than 1 in 10 people):

• Reactions where the injection is given – symptoms include pain, skin redness, bruising, discomfort, swelling, bleeding, itching, hardening of skin, tingling, warmth and rash.

Common (may affect up to 1 in 10 people):

- Allergic reactions including itching, discomfort and tingling of the tongue
- Dizziness, feeling faint
- Raised skin rash
- Muscle pain
- Blood tests showing liver changes

Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. 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 <u>Appendix V</u>. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store TAKHZYRO

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 label and on the carton after EXP. The expiry date refers to the last day of that month.

TAKHZYRO 300 mg solution for injection in pre-filled pen

Store in a refrigerator (2 °C-8 °C). Do not freeze. Keep the pre-filled pen in the outer carton in order to protect from light.

Pre-filled pens may be stored below 25 °C for a single period of 14 days, but not beyond the expiry date.

Do not return TAKHZYRO to refrigerated storage after storage at room temperature.

When one pre-filled pen from a multi-pack is removed from refrigeration, return the remaining pre-filled pens to the refrigerator until future use when needed.

Do not use this medicine if you notice signs of deterioration such as particles in the pre-filled pen or changed colour of the injection solution.

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 TAKHZYRO contains

- The active substance is lanadelumab. Each pre-filled pen contains 300 mg of lanadelumab in 2 ml solution.
- The other ingredients are disodium phosphate dihydrate, citric acid monohydrate, histidine, sodium chloride, polysorbate 80 and water for injections see section 2 "TAKHZYRO contains sodium".

What TAKHZYRO looks like and contents of the pack

TAKHZYRO is presented as a clear, colourless to slightly yellow solution for injection in a pre-filled pen.

TAKHZYRO is available as:

- a single pack containing one 2 ml pre-filled pen in a carton
- a single pack containing two 2 ml pre-filled pens in a carton
- in multipacks comprising 3 cartons, each carton containing two 2 ml pre-filled pens.

Not all pack sizes may be marketed.

Marketing Authorisation Holder and Manufacturer

Marketing Authorisation Holder

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This leaflet was last revised in

Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site: https://www.ema.europa.eu/. There are also links to other websites about rare diseases and treatments.

7. Instructions for use

Be sure that you read, understand, and follow the instructions for use before injecting TAKHZYRO. Contact your healthcare provider if you have any questions.

Intended use

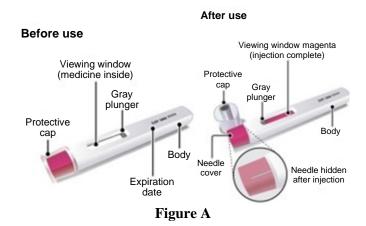
The TAKHZYRO pre-filled pen is a fixed dose (300 mg/2 ml), ready-to-use, disposable, needle-based injection device intended for subcutaneous administration of the drug product by healthcare providers, caregivers, or by self-administration (for patients 12 years and older).

Storing the TAKHZYRO pre-filled pen

- Store the TAKHZYRO pre-filled pen in the refrigerator at 2 °C to 8 °C. **Do not** freeze.
- Store TAKHZYRO in the original carton to protect the pre-filled pen from light.
- Pre-filled pens removed from refrigeration should be stored below 25 °C and used within 14 days. Do not return TAKHZYRO to refrigerated storage after leaving the pen out at room temperature.
- After removing one pre-filled pen from a multi-pack, return the remaining pre-filled pens to the refrigerator in the original carton until future use when needed.
- Throw away (dispose of) the TAKHZYRO pre-filled pen if it has been kept out of the refrigerator for more than 14 days, frozen, or not kept in the original carton protected from light.
- **Do not** shake TAKHZYRO.
- Keep TAKHZYRO and all medicines out of the reach of children.

The TAKHZYRO pre-filled pen (**Figure A**) is for single use only.

TAKHZYRO pre-filled pen before and after use



Prepare for your injection

Step 1 - Prepare your pre-filled pen

Remove the TAKHZYRO pre-filled pen carton from the refrigerator 30 minutes before injecting.

- **Do not** use if the seal on the carton is open or broken.
- Your medicine is sensitive to warm temperatures. **Do not** use heat sources such as a microwave or hot water to warm your TAKHZYRO pre-filled pen.



Step 2 - Gather supplies

Gather an alcohol swab, cotton ball or gauze pad, adhesive bandage, and sharps disposal container (**Figure B**) and place the supplies on a clean, flat, surface in a well-lit area. These supplies are not included in the TAKHZYRO pre-filled pen carton.



Figure B

Step 3 - Remove pre-filled pen

Open the carton. Hold the pen body and remove the TAKHZYRO pre-filled pen from the tray (**Figure C**).

- **Do not** remove the protective cap until you are ready to inject.
- **Do not** touch or push the needle cover until you are ready to inject.



Figure C

Step 4 – Wash hands

Wash your hands with soap and water (Figure D). Dry your hands completely.

• **Do not** touch any surface or body part after washing your hands before the injection.



Figure D

Step 5 – Check expiration date

Check the expiration date (EXP) on the pen body (Figure E).

• **Do not** use the TAKHZYRO pre-filled pen if the expiration date has passed. If the TAKHZYRO pre-filled pen is expired throw it away (dispose of) in a sharps disposal container and contact your healthcare provider.

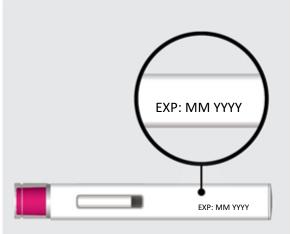


Figure E

Step 6 – Inspect TAKHZYRO

Inspect the TAKHZYRO pre-filled pen for any damage. Check the viewing window (**Figure F**) and make sure the medicine is colourless to slightly yellow.

- **Do not** use the TAKHZYRO pre-filled pen if the pen is damaged or cracked.
- **Do not** use the TAKHZYRO pre-filled pen if the medicine is discoloured, cloudy, or has flakes or particles in it.
- You may see air bubbles in the TAKHZYRO pre-filled pen viewing window. This is normal and will not affect your dose.

If you cannot use the pre-filled pen, contact your healthcare provider.



Figure F

Select and prepare your injection site

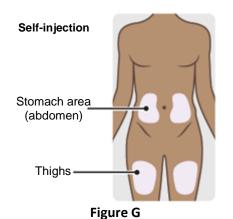
Step 7 – Select your injection site

TAKHZYRO should be injected into the following sites only (**Figure G for self-injection and Figure H for caregiver injection**):

- stomach area (abdomen)
- thighs
- upper arms (only if a healthcare provider or caregiver is giving you the injection)
- **Do not** inject into an area of your body where the skin is irritated, red, bruised, or infected.
- The area you choose for injection should be at least 5 cm away from any scars or your belly button (navel).

Important:

Rotate injection sites to keep skin healthy. Each new injection should be given at least 2.5 cm from the last site you used.



Stomach area (abdomen)

Thighs

Injection by caregiver

Upper arms —— (for caregiver use only)

Figure H

Step 8 - Clean injection site

Clean the injection site with an alcohol swab and allow it to dry completely (**Figure I**).

- **Do not** fan or blow on the clean site.
- **Do not** touch the clean site again before giving your injection.



Figure I

Step 9 - Remove protective cap

Firmly hold the middle of the TAKHZYRO pre-filled pen with one hand, and with the other hand, pull the protective cap straight off (**Figure J**).

- The needle is protected by the needle cover.
- You may see a few drops of liquid come out of the needle. This is normal and will not affect your dose of TAKHZYRO.
- Your TAKHZYRO pre-filled pen is ready to inject after the protective cap is removed.
- **Do not** touch or push the needle cover until you are ready to inject.
- **Do not** recap your TAKHZYRO pre-filled pen.

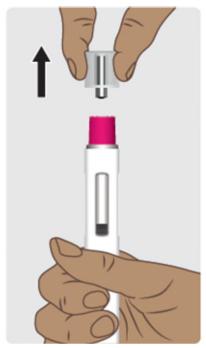


Figure J

Step 10 – Dispose of protective cap

Throw away (dispose of) the protective cap in your trash or in your sharps disposal container (**Figure K**).

• **Do not** recap the pen to avoid a needlestick injury.



Figure K

Inject TAKHZYRO

Step 11 - Hold the TAKHZYRO pre-filled pen and pinch the skin

Hold the TAKHZYRO pre-filled pen in one hand so that you can see the viewing window while giving the injection (**Figure L**).

With your other hand, gently pinch a 2.5 cm fold of skin at the cleaned injection site (**Figure M**).

- Keep pinching until the injection is complete and the needle is removed.
- **Do not** press the needle cover against your skin until you are ready to give the injection.



Figure L



Figure M

Step 12 - Place pen on injection site

Place your TAKHZYRO pre-filled pen on your skin at a 90-degree angle to the chosen injection site (**Figure N**).

- **Do not** push down on the pen until you are ready to inject.
- Hold your pen so you can see the viewing window.



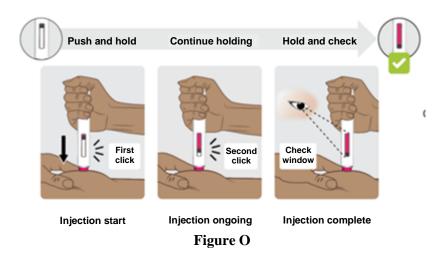
Figure N

Step 13 - Inject TAKHZYRO

Firmly press your pen straight down and hold. This will insert the needle and start your injection (**Figure O**).

Your injection may take up to 25 seconds.

- You will hear a "click" sound when the injection starts.
- There will be a second "click" this is not the end of the injection.
- Continue to hold down with constant pressure, until the **viewing window is completely filled** with the colour magenta.
- Before you remove the pen from your skin, confirm that the viewing window is filled with magenta. This means you have received your full dose (Figure O).
- The grey plunger is still visible in the viewing window after the injection is complete. This is normal and will not affect your dose.
- If the viewing window did not fill completely with magenta, contact your healthcare provider.



Step 14 - Remove pen

Slowly lift your pen straight away from the injection site. The needle cover will be covering all of the needle (**Figure P**).

- Release the fold of skin.
- **Do not rub** the injection site. There may be a small amount of blood where you injected. This is normal.
- Press a cotton ball or gauze pad over the injection site and cover with an adhesive bandage, if needed.



Figure P

Throw away (dispose of) the TAKHZYRO pre-filled pen

Step 15 – Dispose in a sharps disposal container

Put your used TAKHZYRO pre-filled pen in a sharps disposal container right away after use (**Figure Q**).

- **Do not** recap the pen to avoid a needle-stick injury.
- **Do not** reuse the TAKHZYRO pre-filled pen or any of your injection supplies.
- **Do not** throw away (dispose of) the TAKHZYRO pre-filled pen in your household trash.
- **Do not** touch the needle.

Important: Always keep the sharps disposal container out of the reach of children.



Figure Q

Package leaflet: Information for the user

TAKHZYRO 300 mg solution for injection in vial

lanadelumab

Read all of this leaflet carefully before you start using 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, pharmacist or nurse.
- 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, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

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

1. What TAKHZYRO is and what it is used for

TAKHZYRO contains the active substance lanadelumab.

What TAKHZYRO is used for

TAKHZYRO is a medicine used in patients 2 years and older to prevent angioedema attacks in patients with hereditary angioedema (HAE).

What hereditary angioedema (HAE) is

HAE is a condition which runs in families. With this condition your blood does not have enough of a protein called 'C1 inhibitor', or C1 inhibitor does not work properly. This leads to too much 'plasma kallikrein', which in turn produces higher levels of 'bradykinin' in your bloodstream. Too much bradykinin leads to symptoms of HAE like swelling and pain on the,

- hands and feet
- face, eyelids, lips or tongue
- voice-box (larynx), which may make breathing difficult
- genitals

How TAKHZYRO works

TAKHZYRO is a type of protein that blocks the activity of plasma kallikrein. This helps to reduce the amount of bradykinin in your bloodstream and prevents symptoms of HAE.

2. What you need to know before you use TAKHZYRO

Do not use TAKHZYRO

If you are allergic to lanadelumab or any of the other ingredients of this medicine (listed in section 6).

Warnings and precautions

- Talk to your doctor, pharmacist or nurse before using TAKHZYRO.
- If you have a severe allergic reaction to TAKHZYRO with symptoms such as a rash, a tight chest, wheezing, or a fast heartbeat, tell your doctor, pharmacist or nurse **immediately.**

Keeping a record

It is strongly recommended that every time you have a dose of TAKHZYRO, you write down the name and batch number of the medicine. This is so that you keep a record of the batches used.

Laboratory tests

Tell your doctor if you are using TAKHZYRO before you have laboratory tests to measure how well your blood is clotting. This is because TAKHZYRO in the blood may interfere with some laboratory tests, leading to inaccurate results

Children and adolescents

TAKHZYRO is not recommended for use in children under 2 years of age. This is because it has not been studied in this age group.

Other medicines and TAKHZYRO

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines.

TAKHZYRO is not known to affect other medicines or be affected by other medicines.

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 starting to use TAKHZYRO. There is limited information on the safety of TAKHZYRO use during pregnancy and breast-feeding. As a precautionary measure, it is preferable to avoid the use of lanadelumab during pregnancy and breast-feeding. Your doctor will discuss with you the risks and benefits of taking this medicine.

Driving and using machines

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

TAKHZYRO contains sodium

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

3. How to use TAKHZYRO

TAKHZYRO is provided in single-use vials as ready-to-use solution. Your treatment will be started and managed under the supervision of a doctor experienced in the care of patients with HAE.

Always use this medicine exactly as described in this leaflet or as your doctor, pharmacist or nurse has told you. Check with your doctor, pharmacist or nurse if you are not sure or have any further questions on the use of this medicine.

How much TAKHZYRO to use

For adults and adolescents 12 to less than 18 years of age:

- The recommended starting dose is 300 mg lanadelumab every 2 weeks. If you have not had an attack for a long period, your doctor may change the dose to 300 mg lanadelumab every 4 weeks, especially if you have a low body weight.
- In patients with a body weight less than 40 kg, a starting dose of 150 mg lanadelumab every 2 weeks may also be considered. If you have not had an attack for a long period, your doctor may change the dose to 150 mg lanadelumab every 4 weeks.

For children 2 to less than 12 years of age, the recommended dose is based on body weight:

Body Weight (kg)	Recommended Starting Dose	Dose Adjustment
10 to less than 20 kg	150 mg lanadelumab every 4 weeks	A dose increase to 150 mg lanadelumab every 3 weeks may be considered in patients with insufficient control of attacks
20 to less than 40 kg	150 mg lanadelumab every 2 weeks	A dose reduction to 150 mg lanadelumab every 4 weeks may be considered in patients who are stably attack free on treatment
40 kg or more	300 mg lanadelumab every 2 weeks	A dose reduction to 300 mg lanadelumab every 4 weeks may be considered in patients who are stably attack free on treatment

For patients with a body weight of 20 to less than 40 kg who have not had an attack for a long period, the doctor may allow your child or the child you are caring for to continue with the same dose when reaching 12 years of age.

How to inject TAKHZYRO

If you inject TAKHZYRO yourself or if your caregiver injects it, you or your caregiver must carefully read and follow the instructions in section 7, "Instructions for use".

- TAKHZYRO is for injection under the skin ('subcutaneous injection').
- The injection can be given either by yourself or a caregiver for patients 12 years and older.
- The injection can be given by either healthcare provider or caregiver for patients 2 to less than 12 years of age.
- A doctor, pharmacist or nurse should show you how to prepare and inject TAKHZYRO properly before you use it for the first time. Do not inject yourself or someone else until you have been trained to inject the medicine.
- Insert the needle into the fatty tissue in the tummy (abdomen), thigh or upper arm.
- Inject the medicine in a different place each time.
- Use each vial of TAKHZYRO only once.

If you use more TAKHZYRO than you should

Tell your doctor, pharmacist or nurse if you take too much TAKHZYRO.

If you forget to use TAKHZYRO

If you miss a dose of TAKHZYRO, inject your dose as soon as possible. The next dose scheduled may need to be adjusted based on the intended dosing frequency to ensure

- at least 10 days between doses for patients on every 2 weeks dosing schedule,
- at least 17 days between doses for patients on every 3 weeks dosing schedule,
- at least 24 days between doses for patients on every 4 weeks dosing schedule.

If you are not sure when to inject TAKHZYRO after a missed dose, ask your doctor, pharmacist or nurse.

If you stop using TAKHZYRO

It is important that you keep injecting TAKHZYRO as instructed by your doctor even if you feel better.

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

4. Possible side effects

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

If you have a severe allergic reaction to TAKHZYRO with symptoms such as a rash, tight chest, wheezing, or a fast heart beat, tell your doctor, pharmacist or nurse **immediately.**

Tell your doctor, pharmacist or nurse if you notice any of the following side effects.

Very common (may affect more than 1 in 10 people):

• Reactions where the injection is given – symptoms include pain, skin redness, bruising, discomfort, swelling, bleeding, itching, hardening of skin, tingling, warmth and rash.

Common (may affect up to 1 in 10 people):

- Allergic reactions including itching, discomfort and tingling of the tongue
- Dizziness, feeling faint
- Raised skin rash
- Muscle pain
- Blood tests showing liver changes

Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. 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 <u>Appendix V</u>. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store TAKHZYRO

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 label and on the carton after EXP. The expiry date refers to the last day of that month.

Store in a refrigerator (2 $^{\circ}$ C-8 $^{\circ}$ C). Do not freeze. Keep the vial in the outer carton in order to protect from light.

Vials may be stored below 25 °C for a single period of 14 days, but not beyond the expiry date. Do not return TAKHZYRO to refrigerated storage after storage at room temperature.

Do not use this medicine if you notice signs of deterioration such as particles in the vial or changed colour of the injection solution.

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 TAKHZYRO contains

- The active substance is lanadelumab. Each vial contains 300 mg of lanadelumab in 2 ml solution.
- The other ingredients are disodium phosphate dihydrate, citric acid monohydrate, histidine, sodium chloride, polysorbate 80 and water for injections see section 2 "TAKHZYRO contains sodium"

What TAKHZYRO looks like and contents of the pack

TAKHZYRO is presented as a clear, colourless to slightly yellow solution for injection in a glass vial.

TAKHZYRO is available as a single pack containing one 2 ml vial and in multipacks comprising 2 or 6 cartons, each carton containing 1 vial.

Not all pack sizes may be marketed.

Each pack also contains the following items:

- Empty 3 ml syringe
- 18 gauge blunt tip vial access needle
- 27 gauge x 13 mm pointed tip administration (injection) needle.

Marketing Authorisation Holder and Manufacturer

Marketing Authorisation Holder

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Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site: https://www.ema.europa.eu/ There are also links to other websites about rare diseases and treatments.

7. Instructions for use

Be sure that you read, understand and follow the step-by-step instructions for injecting TAKHZYRO. Contact your doctor, pharmacist or nurse if you have any questions.

In addition to the vial, each TAKHZYRO pack also contains:

• One empty 3 ml syringe.

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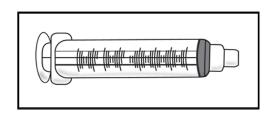
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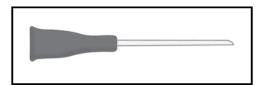
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 One 18 gauge blunt tip vial access needle.
 Used to draw medicinal solution from the vial into the syringe.



• One 27 gauge x 13 mm pointed tip injection needle.

Used for injection under the skin (subcutaneous).



Only use the syringes, blunt-tip vial access needles and pointed-tip injection needles in this pack or which your doctor has prescribed.

Only use the syringes, blunt-tip vial access needles and pointed-tip injection needles one time. Place all used syringes and needles in the sharps container.

Do not use any syringes, blunt-tip vial access needles and pointed-tip injection needles that appear damaged.

You will also need:

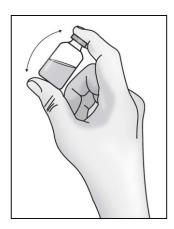
- Alcohol wipes
- A sharps container for used vials, needles and syringes

You can get supplies from your doctor, pharmacist or nurse.

The injection of TAKHZYRO can be summarised in 5 steps:

- 1. Prepare the vial of TAKHZYRO
- 2. Attach blunt tip vial access needle to syringe
- 3. Transfer TAKHZYRO into syringe and switch to the pointed-tip injection needle
- 4. Select and prepare injection site
- 5. Inject TAKHZYRO

Step 1: Prepare the vial of TAKHZYRO



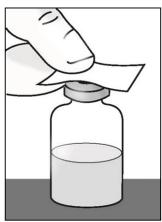
- a) Take the vial out of the refrigerator 15 minutes before use to allow it to reach room temperature (15 °C to 25 °C) before preparing an injection.
- b) Clean your work area and wash your hands before preparing your dose. Do not touch any surface or your body, especially your face, after washing your hands before injection.
- c) Gather your TAKHZYRO and supplies and place them on your well-lit work surface.
- **d**) Remove the vial from the packaging. Do not use the vial if the cap covering the stopper is missing.

- e) Gently invert the vial 3 to 5 times to ensure the solution is mixed. Do not shake the vial as this can cause foaming.
- f) Check the solution in the vial for particles or a change in the colour (normally it is colourless to slightly yellow). Do not use if you see particles or a change in colour.

Important: Do not shake.

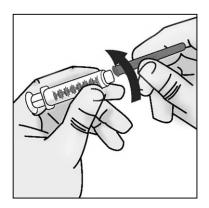


g) Remove the plastic cap from the vial. Do not remove the vial rubber stopper.



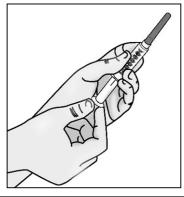
h) Place the vial on a flat surface. Clean the vial rubber stopper with an alcohol wipe and allow it to dry.

Step 2: Attach blunt tip vial access needle to syringe

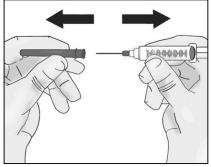


a) Screw the 18 gauge blunt tip vial access needle to the 3 ml syringe.

Important: Do not remove the needle cap from the needle when attaching to the syringe.

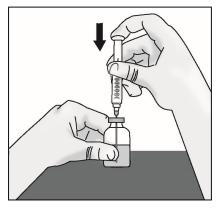


b) Pull back the plunger to fill the syringe with air equal to the amount of solution in the vial.

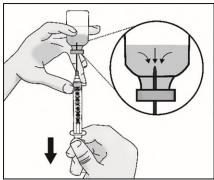


c) Pull off the needle cap straight away from the syringe without touching the needle. Do not pull on the plunger.

Step 3: Transfer TAKHZYRO into syringe and switch to the pointed-tip injection needle

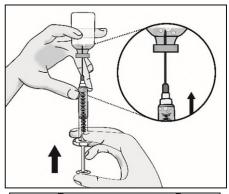


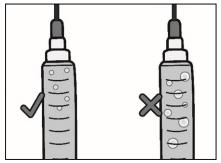
- **a)** Insert the needle into the centre of the rubber stopper.
- **b)** Push the plunger down to inject air into the vial and hold the plunger down.



c) Slowly turn the vial upside down with needle and syringe attached. Pull back on the plunger to withdraw the full dose in the vial.

Important: Be sure to keep the tip of the needle in the liquid to avoid drawing air in as you pull back the plunger.

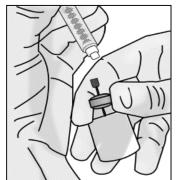




d) Remove large air bubbles by gently tapping on the syringe with your fingers until the bubbles rise to the top of the syringe.

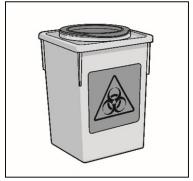
Slowly push the plunger, allowing air to go back into the vial, until the solution reaches the top of the syringe.

Repeat these steps until large air bubbles are removed.

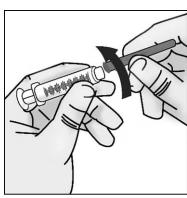


e) Without removing the needle from the vial, unscrew the syringe by holding the top of the needle and turning the syringe counter clockwise.

Return the syringe to an upright position.



f) Place the 18 gauge blunt-tip vial access needle and the vial in a sharps container.

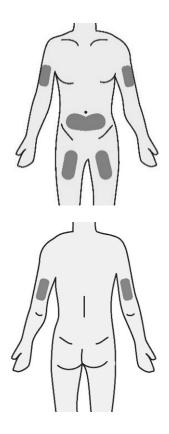


g) Screw the 27 gauge x 13 mm pointed-tip injection needle to the syringe.

Important: Do not remove the needle cap from the needle when attaching to the syringe.

Do not use the blunt tip vial access needle to inject TAKHZYRO as this may cause pain and bleeding.

Step 4: Select and prepare injection site

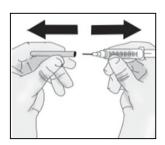


- a) Choose an injection site on your stomach (abdomen), thigh, or upper arm. The injection should be given subcutaneously.
- **b)** Clean your injection site with an alcohol wipe and allow the skin to dry completely.

Important:

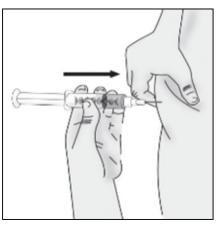
- It is important to use different injection sites to keep skin healthy.
- The area you choose for injection should be at least 5 cm away from any scars or your belly button (navel). Do not choose an area that is bruised, swollen, or painful.
- The outer area of the upper arm is not recommended if you are injecting yourself.

Step 5: Inject TAKHZYRO



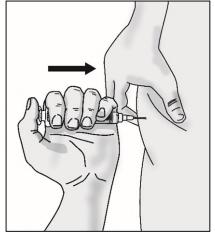
c) Pull off the needle cap straight from the syringe without touching the needle. Do not pull on the plunger. Do not touch the needle tip or allow it to touch any other surface.

Important: Inject TAKHZYRO within 2 hours of preparing the dosing syringe at room temperature. Alternatively, you can place the dosing syringe in a refrigerator at 2 °C to 8 °C and you must use it within 8 hours.

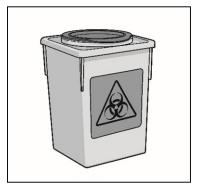


d) Gently pinch about 3 cm of skin at your cleaned injection site and insert the needle.

Important: Be sure to inject into a subcutaneous space which is not too shallow (skin layer) or too deep (muscle).



e) Push the plunger slowly until all the medicine has been injected. Release the skin fold and gently remove the needle. Do not recap the needle.



f) Place the 27 gauge x 13 mm pointed-tip injection needle and the syringe in a sharps container.