

TAKHZYRO is a plasma kallikrein inhibitor (monoclonal antibody) indicated for prophylaxis to prevent attacks of hereditary angioedema (HAE) in patients 12 years and older, with a recommended starting dose of every 2 weeks to help prevent attacks.

## HAE is a rare, genetic disorder that results in recurring attacks of edema (swelling)

WHAT IS HEREDITARY ANGIOEDEMA?

in various parts of the body, including the abdomen, face, feet, genitals, hands and throat.<sup>1,2,3</sup>

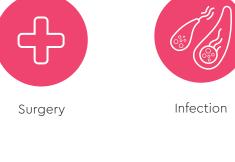
Common Triggers





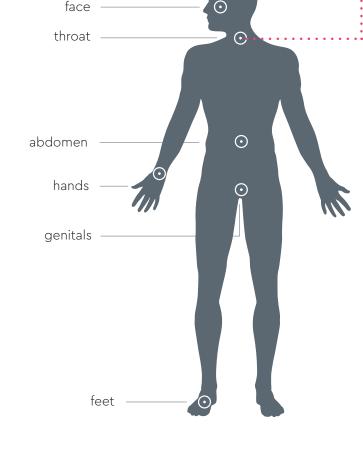






Laryngeal attacks that obstruct the airways are potentially

life-threatening due to the risk of asphyxiation.<sup>1,3</sup>



WHAT IS THE CAUSE?4,5

HAE attacks often happen without a known trigger; however, they can sometimes be brought on by stress, physical trauma, surgery, or a dental procedure, infection, hormones or mechanical pressure.  $^{ exttt{3.5}}$ 

## Most people with HAE have a deficiency of a protein called C1 esterase inhibitor (C1-INH), either there is not

enough of it or it does not function properly.



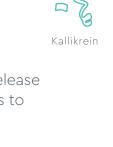
Without sufficient or functional C1-INH, plasma kallikrein in the body is not appropriately inhibited.

ATTACKS IN A WHOLE NEW WAY<sup>6</sup>

or less to complete the injection.

Overactive plasma kallikrein leads to excessive release of bradykinin which directly causes blood vessels to release fluid, leading to the swelling which

characterizes an HAE attack.





TAKHZYRO directly inhibits plasma kallikrein, which is chronically uncontrolled in people with HAE, to help prevent HAE attacks. TAKHZYRO has a half-life of approximately 2 weeks.

subcutaneous self-injection at the recommended starting dose. In clinical trials, the majority of patients took one minute

The recommended starting dose of TAKHZYRO is 300 mg



TAKHZYRO is administered every 2 weeks as one



chest tightness

fast heartbeat

SELECT IMPORTANT SAFETY INFORMATION

### wheezina faintness · difficulty breathing rash

hives

Allergic reactions may happen with TAKHZYRO. Call your healthcare provider or get

Please see complete Important Safety Information at the end of the fact sheet and visit TAKHZYRO.com for full Prescribing Information.

TAKHZYRO may cause serious side effects including allergic reactions.

emergency help right away if you have any of the following symptoms:

The HELP™ study was a randomized, parallel group, double-blind, placebo-controlled study evaluating the efficacy and safety of TAKHZYRO in patients ≥12 years of age (n=125) with type I or II HAE for 26 weeks.

Patients were randomized to receive TAKHZYRO 150 mg every 4 weeks (n=28),

or placebo (n=41) for 26 weeks. Prior to randomization, patients completed a

investigator-confirmed HAE attacks over the entire 26-week study duration.

TAKHZYRO 300 mg every 4 weeks (n=29), TAKHZYRO 300 mg every 2 weeks (n=27),

two-week long-term prophylaxis wash out period before entering a four-week run-in

**HELP™ STUDY DESIGN** 

## period to determine baseline attack rate. Patients with ≥1 investigator confirmed HAE attack during the run-in period were eligible for study enrollment. The primary endpoint was the number of

IN THE LARGEST PREVENTION STUDY CONDUCTED TO DATE IN HAE, TREATMENT

Patients taking TAKHZYRO 300 mg every 2 weeks also had 83% fewer

WITH TAKHZYRO RESULTED IN: 6

moderate to severe attacks and 87% fewer attacks that needed on-demand treatment. Patients taking TAKHZYRO 300 mg every 4 weeks had 73% fewer moderate or severe attacks and 74% fewer attacks that needed on-demand treatment. IN A POST HOC, EXPLORATORY ANALYSIS, AFTER 6 DOSES OF TAKHZYRO (300 MG EVERY 2 WEEKS):

**REDUCTION IN ATTACKS VS PLACEBO** (ADJUSTED P<0.001)

PATIENTS HAD ZERO ATTACKS FOR THE NEXT 4 MONTHS OF TREATMENT 77% of patients taking TAKHZYRO 300 mg every 2 weeks (n=26) had zero attacks vs 3% of patients taking placebo (n=37) [Day 70 to 182].

Patients who took TAKHZYRO 300 mg every 2 weeks (n=27) had an 87%

reduction in mean monthly attack rate vs placebo (n=41). The reduction was 73% for patients who took TAKHZYRO

300 mg every 4 weeks.

Based on an exploratory analysis over the entire 6.5-month study duration, 44% of patients taking TAKHZYRO 300 mg every 2 weeks (n=27) had zero attacks vs 2% of patients taking placebo (n=41) [Day 0 to Day 182]. Most Common Side Effects

The most commonly observed adverse reactions (≥10% and higher than placebo) associated

INDICATION

with TAKHZYRO were injection site reactions consisting mainly of pain, erythema, and bruising at the injection site; upper respiratory infection; headache; rash; myalgia; dizziness;

TAKHZYRO (lanadelumab-flyo) is indicated for prophylaxis to prevent attacks of

hereditary angioedema (HAE) in patients ≥12 years of age.

### Hypersensitivity reactions have been No data are available on TAKHZYRO in pregnant women. No data are available on the presence of lanadelumab in

consisting mainly of pain, erythema, and bruising at the injection site; upper respiratory infection; headache; rash; myalgia; dizziness; and diarrhea. Less common adverse reactions observed included elevated levels of transaminases; one patient discontinued

the trial for elevated transaminases. Use in Specific Populations: The safety and efficacy of TAKHZYRO in pediatric patients <12 years of age have not been established.

REACTIONS, contact Dyax Corp. (a wholly-owned, indirect subsidiary of Shire plc) at 1-800-828-2088, or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. For additional Important Safety

Information, please see full Prescribing

human milk or its effects on breastfed

infants or milk production.

Information.

To report SUSPECTED ADVERSE

# TAKHZY (lanadelumab-flyo) injection

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References:

Ann Allergy Asthma Immunol. 2013;111(5):329-336. 2 Cicardi M. Bork K. Caballero T. et al. on behalf of HAWK (Hereditary Angioedema International Working Group). Evidence-based recommendations for the therapeutic management of angioedema owing to

1 Banerji A. The burden of illness in patients with hereditary angioedema.

- hereditary C1 inhibitor deficiency: consensus report of an International Working Group. Allergy. 2012;67(2):147-157.
- 5 Longhurst HJ, Bork K. Hereditary angioedema: causes, manifestations, and treatment. Br J Hosp Med. 2006;67(12):654-657.

prophylaxis. N Engl J Med. 2017; 376(8):717-728.

4 Banerji et al. Inhibiting plasma kallikrein for hereditary angioedema

3 Zuraw BL. Hereditary angioedema. N Engl J Med. 2008;359(10):1027-1036.

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and diarrhea.

appropriate treatment.

IMPORTANT SAFETY INFORMATION observed. In case of a severe hypersensitivity reaction, discontinue TAKHZYRO administration and institute

Adverse Reactions: The most commonly observed adverse reactions (≥10% and

TAKHZYRO were injection site reactions

higher than placebo) associated with

6 TAKHZRYO Prescribing Information; 2018.