

PREPARATION AND ADMINISTRATION GUIDE

Nexviadyme is indicated for long-term enzyme replacement therapy for the treatment of patients with Pompe disease (acid α-glucosidase deficiency).

Supplies and equipment

	Nexviadyme single-use vials (see next page for dose calculation)
	Intravenous (IV) administration set with 0.2 μm, low-protein-binding, in-line filter
(Nexviadyme"	Sterile water for injection, for reconstitution – 10 mL for each vial
⁰ 100mg ^{Pow} der for concentrate ^{for} solution for infusion ^{avalglucosidase alfa}	5% glucose ^a in water for injection, for dilution
Genzyme Europe B.V NL	Syringes and needles – diameter not larger than 20-gauge caliber – for reconstitution and dilution
	Additional supplies per institution protocol

NOTE: Filter needles should NOT be used during the preparation of Nexviadyme.

°5% dextrose and 5% glucose are interchangeable in some countries. Refer to your full local prescribing information before prescribing.

lacksquare This medicine is subject to additional monitoring

Prescribing information (PI) is available on the last two pages. Intended for healthcare professionals practicing in Great Britain only.

PREPARATION Use aseptic technique during preparation.

STEP 1

Determine the number of vials to be reconstituted based on the individual patient's weight and the **recommended dosages of 20 mg/kg every other week for late-onset Pompe disease (LOPD) and infantile-onset Pompe disease (IOPD).** For IOPD patients who experience lack of improvement or insufficient response in cardiac, respiratory, and/or motor function while receiving 20 mg/kg, a dose increase to 40 mg/kg every other week (high dose) should be considered in the absence of safety concerns. (e.g., severe hypersensitivity, anaphylactic reactions, or risk of fluid overload). In patients who do not tolerate avalglucosidase alfa at 40 mg/kg every otherweek (e.g., severe hypersensitivity, anaphylactic reactions, the dose to 20 mg/kg every other week. Round up to the nearest whole vial.

DOSE CALCULATION						
			EXAMPLES			
		CALCULATION	LOPD OR IOPD	HIGH DOSE IOPD		
DOSE	=	Total patient weight (kg) × dose by phenotype (mg/kg)	42 kg × 20 mg/kg = 840 mg	11 kg × 40 mg/kg = 440 mg		
VIALS TO RECONSTITUTE (round up to the nearest whole vial)	=	Total patient dose (mg) vial concentration (100 mg/vial)	$\frac{840 \text{ mg}}{100 \text{ mg/vial}} = 8.4 \text{ vials}$ round up to 9 total vials	$\frac{440 \text{ mg}}{100 \text{ mg/vial}} = 4.4 \text{ vials}$ round up to 5 total vials		
RECONSTITUTED VOLUME	=	Total patient dose (mg) 	$\frac{840 \text{ mg}}{10 \text{ mg/mL}} = 84 \text{ mL}$	$\frac{440 \text{ mg}}{10 \text{ mg/mL}} = 44 \text{ mL}$		

STEP 2



Remove required number of vials from refrigerator and allow to reach room temperature (approximately 30 minutes). Do not heat or warm.

Reconstitute each vial by slowly injecting 10 mL of sterile water along the glass wall in each vial. Avoid forceful impact of the sterile water on the powder and avoid foaming. Each vial will yield 100 mg/10 mL (10 mg/mL).



Tilt and roll each vial gently. Do not invert, swirl or shake.

STEP 3

Perform an immediate visual inspection on the reconstituted vials. Do not use if the solution is discoloured or if opaque particles are observed.



Acceptable Clear, colourless to pale yellow



Not acceptable Discoloured, opaque particles or foreign matter

STEP 4

Reconstituted Nexviadyme solution should be diluted in 5% glucose in water to a final concentration of 0.5 mg/mL to 4 mg/mL (see infusion volumes/rates in tables 1 and 2).



Remove the volume of Nexviadyme solution to be diluted from the 5% glucose in water for the infusion bag.



Slowly withdraw the volume of reconstituted solution from each vial.



Add the reconstituted solution slowly and directly into the 5% glucose in water.



Gently invert or massage the infusion bag to mix. Do not shake. Protect from light.



It is recommended to use an in-line filter to administer Nexviadyme. After infusion, flush the infusion line with 5% glucose in water.

All images shown are for illustrative purposes. The actual images of product and supplies may vary due to the local country's approval and regulations.

ADMINISTRATION

Infusion rate overview

Nexviadyme should be administered incrementally as determined by patient response and comfort over approximately 4 to 5 hours for patients with LOPD or IOPD and 5 hours for patients with high-dose IOPD.

For patients on a 20mg/kg dose, it is recommended that the infusion begins at an initial rate of 1 mg/kg/hour and is gradually increased every 30 minutes if there are no signs of infusion-associated reactions (IARs), until a maximum rate of 7 mg/kg/hour (for patients with LOPD or IOPD) and 10 mg/kg/hour (for IOPD patients on a 40mg/kg dose) is reached (see tables 1 and 2).a Vital signs should be obtained at each step before increasing the infusion rate.

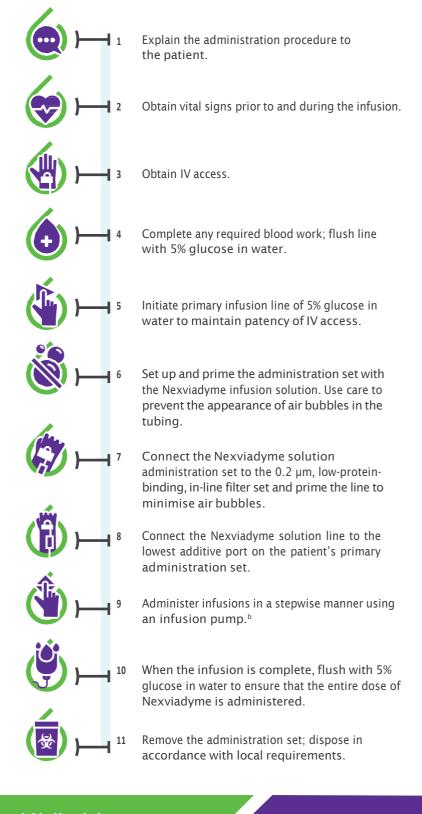
Patients with an acute underlying illness at the time of Nexviadyme infusion appear to be at greater risk of IARs. Careful consideration should be given to the patient's clinical status prior to the administration of Nexviadyme.

NOTE: Do not infuse Nexviadyme in the same IV line as other products.

^aOptimal infusion rate should be determined for each patient as per the clinical site protocol.

^bIt is recommended that the infusion be performed with the use of a programmable IV infusion pump.





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Twice as much medication per vial in Nexviadyme vs MYOZYME® (alglucosidase alfa)



RECOMMENDED INFUSION VOLUME			RECOMMENDED RATES OF INFUSION				
PATIENT WEIGHT (kg)	DOSE (mg/kg)	TOTAL INFUSION VOLUME (mL)	PROTEIN CONCENTRATION (mg/mL)	STEP 1 1 mg/kg/hour (mL/hour)	STEP 2 3 mg/kg/hour (mL/hour)	STEP 3 5 mg/kg/hour (mL/hour)	STEP 4 7 mg/kg/hour (mL/hour)
1.25 to 10	20	50	0.5-4	3	8	13ь	18 ^b
10.1 to 20	20	100	2.02-4	5	15	25	35
20.1 to 30	20	150	2.68-4	8	23	38	53
30.1 to 35	20	200	3.01-3.5	10	30	50	70
35.1 to 50	20	250	2.81-4	13	38	63	88
50.1 to 60	20	300	3.34-4	15	45	75	105
60.1 to 100	20	500	2.40-4	25	75	125	175
100.1 to 120	20	600	3.34-4	30	90	150	210
120.1 to 140	20	700	3.43-4	35	105	175	245
140.1 to 160	20	800	3.5-4	40	120	200	280
160.1 to 180	20	900	3.56-4	45	135	225	315
180.1 to 200	20	1000	3.60-4	50	150	250	350

For IOPD patients who experience a lack of improvement or insufficient response in cardiac, respiratory and/or motor function while receiving 20 mg/kg, a dose increase to 40 mg/kg every other week should be considered in the absence of safety concerns (e.g. severe hypersensitivity, anaphylactic reactions or risk of fluid overload).

Table 2: IOPD Recommended infusion volumes and infusion rates for 40 mg/kg dose ^a								
RECOMMENDED INFUSION VOLUME			RECOMMENDED RATES OF INFUSION					
PATIENT WEIGHT (kg)	DOSE (mg/kg)	TOTAL INFUSION VOLUME (mL)	PROTEIN CONCENTRATION (mg/mL)	STEP 1 1 mg/kg/ hour (mL/hour)	STEP 2 3 mg/kg/ hour (mL/hour)	STEP 3 6 mg/kg/ hour (mL/hour)	STEP 4 8 mg/kg/ hour (mL/hour)	STEP 5 10 mg/kg/ hour (mL/hour)
1.25 to 5	40	50	1-4	1.25	3.75	7.5	10	12 ^c
5.1 to 10	40	100	2.04-4	2.5	7.5	15	20	25
10.1 to 20	40	200	2.02-4	5	15	30	40	50
20.1 to 30	40	300	2.68-4	7.5	22.5	45	60	75
30.1 to 35	40	400	3.01-3.5	10	30	60	80	100
35.1 to 50	40	500	2.81-4	12.5	37.5	75	100	125
50.1 to 60	40	600	3.34-4	15	45	90	120	150
60.1 to 100	40	1000	2.40-4	25	75	150	200	250
100.1 to 120	40	1200	3.34-4	30	90	180	240	300
120.1 to 140	40	1400	3.43-4	35	105	210	280	350
140.1 to 160	40	1600	3.5-4	40	120	240	320	400
160.1 to 180	40	1800	3.56-4	45	135	270	360	450
180.1 to 200	40	2000	3.60-4	50	150	300	400	500

In patients who do not tolerate avalglucosidase alfa at 40 mg/kg every other week (e.g. severe hypersensitivity, anaphylactic reactions or risk of fluid overload), consider decreasing the dose to 20 mg/kg every other week.

(avalglucosidase alfa)

^aOptimal infusion rate should be determined for each patient as per the clinical site protocol.

^bFor patients with LOPD or IOPD with a body weight of 1.25 to 5 kg, a maximum infusion rate of 4.8 mg/kg/hour can be applied.

For patients with IOPD with a body weight of 1.25 to 5 kg, a maximum infusion rate of 9.6 mg/kg/hour can be applied.

Please always consult the summary of product characteristics for full information before prescribing.

Important reminders

- · Follow your institution's policy for IV insertion and medication infusion.
- · Infusion reactions can occur. In this event the infusion rate may be slowed and/or temporarily stopped. Administration of additional antipyretics, antihistamines and/or corticosteroids may alleviate symptoms.
- To better understand Nexviadyme administration, watch the Nexviadyme dosing video at www.campus.sanofi/uk/ Nexviadyme dosing calculator to ensure proper dosage.
- products/rare-diseases/nexviadyme and use the interactive

Adverse events should be reported. Reporting forms and information can be found at www.mhra.gov.uk/yellowcard or search for MHRA Yellow Card in the Google Play or Apple App Store.

> Adverse events should also be reported to the Sanofi drug safety department on Tel: +44 (0) 800 0902 314.

Alternatively, send via email to UK-drugsafety@sanofi.com

Prescribing Information: Nexviadyme (avalglucosidase alfa) 100 mg powder for concentrate for solution for infusion Please refer to the Summary of Product Characteristics (SmPC) before prescribing

Presentation: Each vial contains 100 mg of avalglucosidase alfa. After reconstitution, each vial contains a total extractable volume of 10.0 ml at a concentration of 10 mg of avalglucosidase alfa* per ml. *Avalglucosidase alfa is a human acid α-glucosidase produced in Chinese hamster ovary cells (CHO) by recombinant DNA technology. Indication: Nexviadyme is indicated for long-term enzyme replacement therapy for the treatment of patients with Pompe disease (acid aglucosidase deficiency).

Dosage and Administration: Nexviadyme treatment should be supervised by a physician experienced in the management of patients with Pompe disease or other inherited metabolic or neuromuscular diseases. Patients may be pretreated with antihistamines, antipyretics and/or corticosteroids to prevent or reduce allergic reactions. The recommended dose of avalglucosidase alfa is 20 mg/kg of body weight administered once every 2 weeks. Nexviadyme vials are for single use only and the medicinal product should be administered as an intravenous infusion. The infusion should be administered incrementally as determined by patient response and comfort. It is recommended that the infusion begins at an initial rate of 1 mg/kg/hour and is gradually increased every 30 minutes if there are no signs of infusion-associated reactions (IARs); see SmPC for infusion rate schedule. Home infusion: Infusion of Nexviadyme at home may be considered for patients who are tolerating their infusions well and have no history of moderate or severe IARs for a few months. The decision to have a patient move to home infusion should be made after evaluation and upon recommendation by the treating physician. The healthcare professional should be available at all times during the home infusion and a specified time after infusion, depending on patient's tolerance prior to starting home infusion. (See SmPC section 4.2 for full guidance).

Dose modification for Infantile-Onset Pompe Disease (IOPD) patients: For IOPD patients who experience lack of improvement or insufficient response in cardiac, respiratory, and/or motor function while receiving 20 mg/kg, a dose increase to 40 mg/kg every other week should be considered in the absence of safety concerns (e.g., severe hypersensitivity, anaphylactic reactions, or risk of fluid overload). In patients who do not tolerate avalglucosidase alfa at 40 mg/kg every other week (e.g., severe hypersensitivity, anaphylactic reactions, or risk of fluid overload), consider decreasing the dose to 20 mg/kg every other week.

Special Populations: Elderly patients: No dose adjustment is required in patients >65 years. Hepatic impairment: The safety and efficacy of avalglucosidase alfa in patients with hepatic impairment have not been evaluated. Renal impairment: No dose adjustment is required in patients with mild renal impairment. The safety and efficacy of avalglucosidase alfa in patients with moderate or severe renal impairment have not been evaluated.

Paediatric population (patients 6 months of age and younger): The safety and efficacy of avalglucosidase alfa in children 6 months of age and younger have not yet been established. There are no data available in patients 6 months of age and younger.

Contraindications: Life-threatening hypersensitivity to the active substance or to any of the excipients.

Precautions and Warnings: Hypersensitivity reactions (including anaphylaxis): Hypersensitivity reactions, including anaphylaxis, have been reported in Nexviadyme-treated patients. Appropriate medical support measures, including cardiopulmonary resuscitation equipment especially for patients with cardiac hypertrophy and patients with significantly compromised respiratory function, should be readily available when Nexviadyme is administered. If severe hypersensitivity or anaphylaxis occur, Nexviadyme should be discontinued immediately, and appropriate medical treatment should be initiated. The risks and benefits of readministering Nexviadyme following anaphylaxis or severe hypersensitivity reaction should be considered. Infusion associated

reactions (IARs): In clinical studies, IARs were reported to occur at any time during and/or within a few hours after the infusion of Nexviadyme and were more likely with higher infusion rates. Patients with an acute underlying illness at the time of Nexviadyme infusion appear to be at greater risk for IARs. Patients with advanced Pompe disease may have compromised cardiac and respiratory function, which may predispose them to a higher risk of severe complications from IARs. If severe IARs occur, immediate discontinuation of the administration of Nexviadyme should be considered and appropriate medical treatment should be initiated. The benefits and risks of readministering Nexviadyme following severe IARs should be considered. *Immunogenicity:* Treatment emergent anti-drug antibodies (ADA) were reported in both treatment naïve (95%) and treatment experienced patients (49%). Adverse-event-driven immunologic testing, including IgG and IgE ADA, may be considered for patients who have risk for allergic reaction or previous anaphylactic reaction to alglucosidase alfa.

Risk of acute cardiorespiratory failure: Caution should be exercised when administering Nexviadyme to patients susceptible to fluid volume overload or patients with acute underlying respiratory illness or compromised cardiac and/or respiratory function for whom fluid restriction is indicated. These patients may be at risk of serious exacerbation of their cardiac or respiratory status during infusion. Appropriate medical support and monitoring measures should be readily available during Nexviadyme infusion. Cardiac arrhythmia and sudden death during general anaesthesia for central venous catheter placement. Cardiac arrhythmia, including ventricular fibrillation, ventricular tachycardia, and bradycardia, resulting in cardiac arrest or death, or requiring cardiac resuscitation or defibrillation, have been associated with the use of general anaesthesia in IOPD patients with cardiac hypertrophy. Interactions: No interaction studies have been performed. Because it is a recombinant human protein, avalglucosidase alfa is an unlikely candidate for cytochrome P450 mediated drug-drug interactions. Fertility and Lactation: There are no available data on the use of Nexviadyme in pregnant women. The potential risk for humans is unknown. Nexviadyme should be used during pregnancy only if the potential benefits to the mother outweigh the potential risks, including those to the foetus. *Breast-feeding*: There are no available data on the presence of Nexviadyme in human milk or the effects of Nexviadyme on milk production or the breastfed infant. Adverse Reactions: Serious adverse reactions reported in patients treated with Nexviadyme were respiratory distress, chills, headache, dyspnoea, hypoxia, tongue oedema, nausea, pruritus, urticaria, skin discoloration, chest discomfort, pyrexia, blood pressure increased or decreased, body temperature increased, heart rate increased, oxygen saturation decreased, hypersensitivity reactions and anaphylaxis. *Very common* (≥1/10): Hypersensitivity, headache, nausea, pruritus, rash. *Common* (≥1/100 to<1/10): Anaphylaxis, dizziness, tremor, somnolence, burning sensation, ocular hyperaemia, conjunctival hyperaemia, eye pruritus, eyelid oedema, tachycardia, flushing, hypertension, hypotension, cyanosis, hot flush, pallor, cough, dyspnoea, Respiratory distress, throat irritation, oropharyngeal pain, diarrhoea, vomiting, lip swelling, swollen tongue, abdominal pain, abdominal pain upper, dyspepsia, urticaria, erythema, palmer erythema, hyperhidrosis, rash erythematous, rash pruritic, skin plaque, muscle spasms, myalgia, pain in extremity, flank pain, fatigue, chills, chest discomfort, pain, influenza like illness, infusion site pain, pyrexia, asthenia, face oedema, feeling cold, feeling hot, sluggishness, blood pressure increased, oxygen saturation decreased and body temperature increase. Prescribers should consult the SmPC in relation to other adverse reactions. List price: (UK list price): £783.33/Vial Legal Category: POM Marketing Authorisation Number: PLGB 04425/0893 Marketing Authorisation Holder: Sanofi, 410 Thames Valley Park Drive, Reading, Berkshire, RG6 1PT, UK. Further information is available from: Medical Information, Sanofi, 410 Thames Valley Park Drive, Reading, Berkshire, RG6 1PT, UK. uk-medicalinformation@sanofi.com

Date of preparation: January 2024



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Prescribing Information: Myozyme® 50mg (alglucosidase alfa) powder for concentrate for solution for infusion Please refer to the Summary of Product Characteristics before prescribing.

Presentation: Each vial contains 50mg of the active ingredient alglucosidase alfa. Following reconstitution each vial contains 5mg/ml alglucosidase alfa. **Indication:** Myozyme is indicated for long-term enzyme replacement therapy (ERT) in patients with a confirmed diagnosis of Pompe disease (acid α-glucosidase deficiency). Myozyme is indicated in adults and paediatric patients of all ages.

Dosing and Administration: Myozyme treatment should be supervised by a physician experienced in the management of patients with Pompe disease or other inherited metabolic or neuromuscular diseases. The recommended dosage regimen for Myozyme is 20 mg/kg of body weight administered once every 2 weeks as an intravenous infusion. Infusions should be administered incrementally: it is recommended that the infusions begin at an initial rate of 1 mg/kg/hr and, if there are no signs of infusion associated reactions (IARs), are gradually increased by 2 mg/kg/hr every 30 minutes, until a maximum rate of 7 mg/kg/hr is reached. Before administration determine the number of vials to be reconstituted based on the individual patient's dose regimen (mg/kg)and remove the required vials from the refrigerator in order to allow them to reach room temperature (approx. 30 mins). Each vial of Myozyme is for single use only. There is no evidence for special considerations when Myozyme is administered to children, adolescents, adults or elderly patients. The safety and efficacy of Myozyme in patients with renal or hepatic insufficiency have not been evaluated and no specific dosage regimen can be recommended for these patients. *Refer to SmPC for full guidance* on reconstitution of Myozyme.

Contraindications: Life-threatening hypersensitivity to the active substance or to any of the excipients confirmed by re-challenge. Warnings and Precautions: *Hypersensitivity/Anaphylactic reactions:* Serious and life-threatening anaphylactic reactions, including anaphylactic shock, have been reported in infantile and late onset patients during Myozyme infusions. Because of the potential for severe IARs, appropriate medical support measures, including cardiopulmonary resuscitation equipment should be readily available when Myozyme is administered and patients should be closely monitored. If severe hypersensitivity or anaphylactic reactions occur, immediate discontinuation of Myozyme infusion should be considered, and appropriate medical treatment should be initiated. IARs: Patients who have experienced IARs (and in particular anaphylactic reactions) should be treated with caution when re-administering Myozyme. Mild and transient effects may not require medical treatment or discontinuation of the infusion. Reduction of the infusion rate, temporary interruption of the infusion or pre-treatment, generally with oral antihistamine and/or antipyretics and/or corticosteroids, has effectively managed most reactions. *Immunogenicity:* In clinical studies, most patients are expected to develop IgG antibodies to rhGAA, typically within 3 months of starting treatment. Immune-mediated reactions: Severe cutaneous reactions, possibly immune-mediated, have been reported with alglucosidase alfa, including ulcerative and necrotizing skin lesions. Nephrotic syndrome was observed in a few Pompe patients treated with alglucosidase alfa and who had high IgG antibody titres (≥102,400). Immunomodulation: Immunogenicity data from clinical trials and published literature in CRIM-negative infantile-onset patients (IOPD) suggests that the

administration of immune tolerance induction (ITI) regimen given to alglucosidase alfa naïve patients (prophylactic ITI) may be effective in preventing or reducing the development of High Sustained Antibody Titer (HSAT) against alglucosidase alfa. ITI regimens may need to be tailored to individual patient needs. Patients with Pompe disease are at risk of respiratory infections due to the progressive effects of the disease on the respiratory muscles. Treating patients with immunosuppressive agents may further increase the risk of developing severe respiratory infections and vigilance is recommended. Fatal and life-threatening respiratory infections have been observed in some of these patients. Interactions: No drug interaction studies have been carried out with Myozyme. Recombinant human protein, alglucosidase alfa is an unlikely candidate for cytochrome P450 mediated drug-drug interactions. Pregnancy and Lactation: There is limited data from the use of alglucosidase alfa in pregnant women. Studies in animals have shown reproductive toxicity. Myozyme should not be used during pregnancy unless the clinical condition of the woman requires treatment with alglucosidase alfa. Myozyme is excreted in breast milk in very low concentrations. No clinical effect is expected in a breastfed infant due to low breast milk transfer and poor bioavailability. Breast-feeding during treatment with Myozyme may therefore be considered. As a precautionary measure, breastfeeding interruption for the first 24 hours after treatment may be considered. Fertility: There is too limited clinical data on the effects of alglucosidase alfa on fertility to evaluate its impact. Preclinical data did not reveal any significant adverse findings. Adverse effects: Infantile-onset Pompe Disease: Serious infusion reactions including urticaria, rales, tachycardia, decreased oxygen saturation, bronchospasm, tachypnoea, periorbital oedema and hypertension have been reported. Very common ($\geq 1/10$): tachycardia, flushing, tachypnoea, cough, vomiting, urticaria, rash, pyrexia and decreased oxygen saturation. Common ($\geq 1/100$ to <1/10): agitation, tremor, cyanosis, hypertension, pallor, retching, nausea, erythema, rash maculopapular, rash macular, rash papular, pruritus, irritability, chills, increased heart rate, increased blood pressure and increased body temperature. Late-onset Pompe disease: Serious adverse reactions reported in 4 patients treated with Myozyme were: angioedema, chest discomfort, throat tightness, non-cardiac chest pain and supraventricular tachycardia. Reactions in 2 of these patients were IgE-mediated hypersensitivity reactions. Common ($\geq 1/100$ to <1/10): Hypersensitivity, dizziness, paraesthesia, headache, flushing, throat tightness, diarrhoea, vomiting, nausea, urticaria, rash papular, pruritus, hyperhidrosis, muscle spasms, muscle twitching, myalgia, pyrexia, chest discomfort, peripheral oedema, local swelling, fatigue, feeling hot and increased blood pressure. Prescribers should consult the SmPC in relation to other adverse reactions. Legal Category: POM. UK List Price £356.06 per vial. Marketing Authorisation Number: PLGB 04425/0770. Marketing Authorisation Holder: Sanofi, 410 Thames Valley Park Drive, Reading, Berkshire, RG6 1PT. Further information available from: Medical Information, Sanofi, 410 Thames Valley Park Drive, Reading, Berkshire, RG6 1PT, UK or uk-medicalinformation@sanofi.com

Date of Preparation: March 2024

Adverse events should be reported. Reporting forms and information can be found at <u>www.mhra.gov.uk/yellowcard</u> or search for MHRA Yellow Card in the Google Play or Apple App Store. Adverse events should also be reported to the Sanofi Drug Safety department on Tel: 0800 0902314. Alternatively, send via email to <u>UK-drugsafety@sanofi.com</u>

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