

Pharmacode

Cerezyme® 400 U

Imiglucerase for Injection

Powder for concentrate for solution for infusion

genzyme

A SANOFI COMPANY

sanofi

1. NAME OF THE MEDICINAL PRODUCT

Cerezyme 400 U Powder for concentrate for solution for infusion

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each vial contains 400 units* of imiglucerase**

After reconstitution, the solution contains 40 units (approximately 1.0 mg) of imiglucerase per ml (400 U/10 ml).

* An enzyme unit (U) is defined as the amount of enzyme that catalyses the hydrolysis of one micromole of the synthetic substrate para-nitrophenyl β-D-glucopyranoside (pNP-Glc) per minute at 37°C.

** Imiglucerase is a modified form of human acid β-glucosidase and is produced by recombinant DNA technology using a mammalian Chinese Hamster Ovary (CHO) cell culture, with mannose modification for targeting macrophages.

Excipients:
For a full list of excipients, see section 6.1.

This medicinal product contains sodium and is administered in 0.9% sodium chloride intravenous solution (see section 6.6). After reconstitution, the solution contains 1.24 mmol sodium (400 U/10 mL). To be taken into consideration by patients on a controlled sodium diet.

3. PHARMACEUTICAL FORM

Powder for concentrate for solution for infusion.

Cerezyme is a white to off-white powder.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Cerezyme® (imiglucerase for injection) is indicated for long-term enzyme replacement therapy for pediatric and adult patients with a confirmed diagnosis of type 1 Gaucher disease that result in one or more of the following conditions:

a. Anaemia after exclusion of other causes, such as iron deficiency

b. Thrombocytopenia

c. Bone disease after exclusion of other causes such as Vitamin D deficiency

d. Hepatomegaly or splenomegaly

4.2 Posology and method of administration

Disease management should be directed by physicians knowledgeable in the treatment of Gaucher disease.

Posology

Due to the heterogeneity and the multi-systemic nature of Gaucher disease, dosage should be individualised for each patient based on a comprehensive evaluation of all clinical manifestations of the disease. Once individual patient response for all relevant clinical manifestations is well-established, dosages and frequency of administration may be adjusted with the goal to either maintain already reached optimal parameters for all clinical manifestations or further improve those clinical parameters which have not yet been normalised.

A range of dosage regimens has proven effective towards some or all of the non-neurological manifestations of the disease. Initial doses of 60 U/kg of body weight once every 2 weeks have shown improvement in haematological and visceral parameters within 6 months of therapy and continued use has either stopped progression of or improved bone disease. Administration of doses as low as 15 U/kg of body weight once every 2 weeks has been shown to improve haematological parameters and organomegaly, but not bone parameters. The usual frequency of infusion is once every 2 weeks; this is the frequency of infusion for which the most data are available.

Paediatric population

No dose adjustment is necessary for the paediatric population.

The efficacy of Cerezyme on neurological symptoms of chronic neuronopathic Gaucher patients has not been established and no special dosage regimen can be recommended for these manifestations (see section 5.1).

Method of Administration

After reconstitution and dilution, the preparation is administered by intravenous infusion. At initial infusions, Cerezyme should be administered at a rate not exceeding 0.5 unit per kg body weight per minute. At subsequent administrations, infusion rate may be increased but should not exceed 1 unit per kg body weight per minute. Infusion rate increases should occur under supervision of a health care professional.

Infusion of Cerezyme at home may be considered for patients who are tolerating their infusions well for several months. Decision to have patient move to home infusion should be made after evaluation and recommendation by the treating physician. Infusion of Cerezyme by the patient or caregiver at home requires training by a health care professional in a clinical setting. The patient or caregiver will be instructed in infusion technique and the keeping of a treatment diary. Patients experiencing adverse events during the infusion need to immediately **stop the infusion process and** seek the attention of a healthcare professional. Subsequent infusions may need to occur in a clinical setting. Dose and infusion rate should remain constant while at home, and not be changed without supervision of a health care professional.

For instructions on reconstitution and dilution of the medicinal product before administration, see section 6.6.

Medical or healthcare professionals are encouraged to register Gaucher patients, including those with chronic neuronopathic manifestations of the disease, in the “ICGG Gaucher Registry” (see section 5.1).

4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients (see section 4.4).

4.4 Special warnings and precautions for use

Hypersensitivity

Current data using a screening ELISA followed by a confirmatory radioimmunoprecipitation assay, suggest that, during the first year of therapy, IgG antibodies to imiglucerase are formed in approximately 15% of the treated patients. It appears that patients who will develop IgG antibody are most likely to do so within 6 months of treatment and will rarely develop antibodies to Cerezyme after 12 months of therapy.

4.5 Interaction with other medicinal products and other forms of interaction

No interaction studies have been performed.

4.6 Fertility, pregnancy and lactation

Limited experience from 150 pregnancy outcomes (primarily based on spontaneous reporting and literature review) is available suggesting that use of Cerezyme is beneficial to control the underlying Gaucher disease in pregnancy. Furthermore, these data indicate no malformative toxicity for the foetus by Cerezyme, although the statistical evidence is low. Foetal demise has been reported rarely, although it is not clear whether this related to the use of Cerezyme or to the underlying Gaucher disease.

No animal studies have been carried out with respect to assessing the effects of Cerezyme on pregnancy, embryonal/foetal development, parturition and postnatal development. It is not known whether Cerezyme passes via the placenta to the developing foetus.

In pregnant Gaucher patients and those intending to become pregnant, a risk-benefit treatment assessment is required for each pregnancy. Patients who have Gaucher disease and become pregnant may experience a period of increased disease activity during pregnancy and the puerperium. This includes an increased risk of skeletal manifestations, exacerbation of cytopenia, haemorrhage, and an increased need for transfusion. Both pregnancy and lactation are known to stress maternal calcium homeostasis and to accelerate bone turnover. This may contribute to skeletal disease burden in Gaucher disease.

Treatment naïve women should be advised to consider commencing therapy prior to conception in order to attain optimal health. In women receiving Cerezyme treatment continuation throughout pregnancy should be considered. Close monitoring of the pregnancy and clinical manifestations of Gaucher disease is necessary for the individualization of dose according to the patient's needs and therapeutic response.

Breast-feeding

It is not known whether this active substance is excreted in human milk, however, the enzyme is likely to be digested in the child's gastrointestinal tract

4.7 Effects on ability to drive and use machines

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

4.8 Undesirable effects

Adverse drug reactions are listed by system organ class and frequency (common (≥1/100 to <1/10), uncommon (≥1/1,000 to <1/100) and rare (≥1/10,000 to <1/1,000)) in the table below. Within each frequency grouping, adverse drug reactions are presented in order of decreasing seriousness.

Nervous system disorders	Uncommon:	Dizziness, headache, paraesthesia*
Cardiac disorders	Uncommon:	Tachycardia*, cyanosis*
Vascular disorders	Uncommon:	Flushing*, hypotension*
Respiratory, thoracic and mediastinal disorders	Common:	Dyspnoea*, coughing*
Gastrointestinal disorders	Uncommon:	Vomiting, nausea, abdominal cramping, diarrhoea
Immune system disorders	Common: Rare:	Hypersensitivity reactions Anaphylactoid reactions
Skin and subcutaneous tissue disorders	Common:	Urticaria/angioedema*, pruritus*, rash*
Musculoskeletal and connective tissue disorders	Uncommon:	Arthralgia, backache*
General disorders and administration site conditions	Uncommon:	Infusion site discomfort, infusion site burning, infusion site swelling, injection site sterile abscess, chest discomfort*, fever, rigors, fatigue

Symptoms suggestive of hypersensitivity (* marked in the table above) have been noted, overall in approximately 3% of the patients. Onset of such symptoms has occurred during or shortly after infusions. These symptoms generally respond to treatment with antihistamines and/or corticosteroids. Patients should be advised to discontinue infusion of the product and contact their physician if these symptoms occur.

4.9 Overdose

No case of overdose has been reported. In patients dosages up to 240 U/kg body weight once every two weeks have been used.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Enzymes-Imiglucerase (recombinant macrophage targeted β-glucocerebrosidase), ATC code: A16AB02.

Cerezyme® 400 U

Imiglucerase untuk Injeksi Serbuk untuk larutan konsentrat untuk infus

genzyme

A SANOFI COMPANY

sanofi

Bacalah seluruh leaflet ini dengan seksama sebelum Anda mulai menggunakan obat ini karena mengandung informasi penting untuk Anda.

- Simpan leaflet ini. Anda mungkin perlu untuk membacanya kembali.

- Jika Anda memiliki pertanyaan lebih lanjut, tanyakan kepada dokter atau apoteker Anda.

- Obat ini telah diresepkan untuk Anda. Jangan diberikan kepada orang lain. Hal ini dapat membahayakan mereka, meskipun gejala yang mereka dan Anda alami sama.

- Jika salah satu efek samping menjadi semakin serius, atau jika Anda menyadari efek samping apapun yang tidak tercantum dalam leaflet ini, hubungi dokter atau apoteker Anda.

Apa saja informasi dalam lembaran ini:

1. Apa itu Cerezyme dan apa kegunaannya.

2. Sebelum Anda menggunakan Cerezyme.

3. Aturan pakai Cerezyme.

4. Efek samping yang mungkin timbul.

5. Cara menyimpan Cerezyme.

6. Informasi lebih lanjut

1. APA ITU CEREZYME DAN APA KEGUNAANNYA

Cerezyme digunakan untuk mengobati pasien yang telah dipastikan menderita penyakit Gaucher Type I, yang mengalami gejala penyakit tersebut, misalnya:

- anemia (rendahnya jumlah sel darah merah) setelah menyingkirkan penyebab lain misalnya kekurangan besi,

- kekurangan keping darah / trombosit yang mengakibatkan kecenderungan mudah berdarah

- kelainan tulang, setelah menyingkirkan penyebab lain seperti kekurangan vitamin D

- pembesaran limpa atau hati atau pembesaran hati.

Penderita penyakit Gaucher memiliki kekurangan enzim yang disebut *acid β-glucosidase*. Enzim ini membantu tubuh mengendalikan tingkat glucosylceramide. Glucosylceramide adalah zat alami dalam tubuh, terbuat dari gula dan lemak. Pada penyakit Gaucher tingkat glucosylceramide dapat menjadi sangat tinggi.

Cerezyme adalah enzim buatan yang disebut imiglucerase –yang dapat menggantikan enzim alami acid β-glucosidase yang kurang atau tidak cukup aktif pada pasien yang menderita penyakit Gaucher.

Informasi dalam leaflet ini berlaku untuk seluruh kelompok pasien termasuk anak-anak, remaja, dewasa dan orang tua.

2. SEBELUM ANDA MENGGUNAKAN CEREZYME

Jangan gunakan Cerezyme

- Jika Anda alergi (hipersensitif) terhadap imiglucerase, atau

- Jika Anda alergi terhadap salah satu bahan lain dari Cerezyme.

Perhatian khusus menggunakan Cerezyme

- Jika Anda sedang menjalani pengobatan dengan Cerezyme, Anda mungkin mengalami reaksi alergi saat Anda diberi obat atau tidak lama sesudahnya. Jika Anda mengalami reaksi seperti ini, **segera hubungi dokter Anda**. Dokter mungkin akan memeriksa apakah Anda memiliki reaksi alergi terhadap imiglucerase.

- Beberapa pasien yang menderita penyakit Gaucher memiliki tekanan darah tinggi di paru-paru (hipertensi pulmonal). Penyebabnya dapat tidak diketahui, atau dapat disebabkan masalah jantung, paru-paru atau hati. Hal ini dapat terjadi terlepas dari apakah pasien sedang menjalani pengobatan dengan Cerezyme atau tidak. Tetapi jika Anda menderita **sesak napas**, Anda harus menghubungi dokter Anda.

Menggunakan obat-obatan lain

Hubungi dokter atau apoteker Anda jika Anda akan atau belum lama ini menggunakan obat lain, termasuk obat-obatan yang diperoleh tanpa resep.

Cerezyme tidak boleh diberikan sebagai campuran dengan produk obat lainnya dalam infus yang sama (tetes).

Kehamilan dan menyusui

Konsultasikan dengan dokter atau apoteker Anda sebelum menggunakan obat ini jika Anda sedang hamil atau berpikir Anda mungkin sedang hamil. Disarankan agar berhati-hati dalam menggunakan Cerezyme selama kehamilan dan menyusui.

Informasi penting tentang beberapa bahan Cerezyme

Produk obat ini mengandung natrium dan diberikan dalam larutan intravena natrium klorida 0,9%. Untuk dipertimbangkan oleh pasien yang sedang menjalani diet natrium terkontrol.

3. CARA MENGGUNAKAN CEREZYME

Petuniukl penggunaan yang benar

Cerezyme diberikan melalui infus ke dalam pembuluh darah (melalui infus intravena).

Tersedia dalam bentuk serbuk yang akan dicampur dengan cairan steril sebelum diberikan.

Cerezyme hanya boleh digunakan dalam pengawasan dokter yang memiliki pengetahuan luas dalam pengobatan penyakit Gaucher. Dokter Anda mungkin akan mengijinkan Anda menjalani rawat jalan jika Anda memenuhi beberapa kriteria tertentu. Hubungi dokter Anda jika Anda ingin menjalani rawat jalan.

Dosis Anda akan dibuat khusus untuk Anda. Dokter akan meresepkan dosis Anda berdasarkan seberapa parah gejala Anda, dan faktor-faktor lainnya. Dosis Cerezyme yang dianjurkan adalah 60 unit/kg berat badan diberikan setiap 2 minggu sekali.

Dokter Anda akan memantau ketat respon tubuh Anda terhadap pengobatan yang dijalani, dan dapat merubah dosis (menaikkan atau menurunkan) sampai dokter menemukan dosis terbaik untuk mengendalikan gejala yang Anda alami.

Setelah menemukan dosis yang tepat, dokter tetap akan memeriksa respon tubuh Anda untuk memastikan Anda menggunakan dosis yang tepat. Ini mungkin perlu dilakukan setiap 6 sampai 12 bulan.

Tidak ada informasi mengenai pengaruh Cerezyme pada gejala-gejala terhadap otak pada pasien yang menderita penyakit Gaucher neuronopathic kronis. Oleh karena itu tidak ada regimen dosis tertentu yang dapat direkomendasikan.

ICGG Gaucher Registry

Anda dapat meminta dokter Anda untuk mendaftarkan informasi pasien ke "ICGG Gaucher Registry". Tujuan dari Registry ini adalah untuk meningkatkan pemahaman tentang penyakit Gaucher dan untuk memeriksa seberapa baik terapi penggantian enzim itu bekerja, seperti Cerezyme. Hal ini tentunya akan meningkatkan keamanan dan efektivitas Cerezyme. Data Anda sebagai pasien akan didaftarkan secara anonim - tidak seorang pun akan tahu itu adalah informasi tentang Anda.

Jika Anda menggunakan Cerezyme lebih dari yang seharusnya

KSF/XXXXXX

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Pharmacode : XXXXX

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