

## **Agalsidase beta: Drug information**

### **Brand Names: US**

Fabrazyme

### **Brand Names: Canada**

Fabrazyme

**Pharmacologic Category:** Enzyme

### **Mechanism of Action**

Agalsidase beta is a recombinant form of the enzyme alpha-galactosidase-A, which is required for the hydrolysis of GL-3 and other glycosphingolipids. The compounds may accumulate (over many years) within the tissues of patients with Fabry disease, leading to renal and cardiovascular complications.

**Use: Fabry disease:** For use in patients with Fabry disease.

### **Pricing: US**

**Solution (reconstituted)** (Fabrazyme Intravenous)

5 mg (per each): \$1,010.40

35 mg (per each): \$7,072.80

### **Pricing: Brasil**

**Solution (reconstituted)** (Fabrazyme Intravenous)

35 mg (per each): R\$ 14.047,67

### **Dosage Forms**

Excipient information presented when available (limited, particularly for generics); consult specific product labeling.

Solution Reconstituted, Intravenous [preservative free]:

Fabrazyme: 5 mg (1 ea); 35 mg (1 ea) [contains mouse (murine) and/or hamster protein]

**Generic Equivalent Available (US):** No

**Dosing: Adult**

**Fabry disease:** IV: 1 mg/kg every 2 weeks

Children  $\geq 8$  years and Adolescents: IV: Refer to adult dosing

**Dosing: Renal Impairment: Adult**

No dosage adjustment required.

**Dosing: Hepatic Impairment: Adult**

There are no dosage adjustments provided in the manufacturer's labeling.

**Administration**

IV: Antipyretics should be administered prior to infusion. Infuse through a low protein binding 0.2 micron in-line filter. Initial infusion rate should not exceed 0.25 mg/minute (15 mg/hour). Interrupt or decrease rate in the event of an infusion reaction; may be restarted after resolution of symptoms and/or after administration of antipyretics, antihistamines, and/or steroids. After patient tolerance to the infusion is established, rate may be increased in increments of 0.05-0.08 mg/minute (3-5 mg/hour) with each subsequent infusion. Maximum infusion rate: Patients  $< 30$  kg: 0.25 mg/minute; patients  $\geq 30$  kg: Infuse over at least 1.5 hours. An initial maximum infusion rate of 0.01 mg/minute should be used for rechallenge in patients with IgE antibodies or who have had a positive skin test to agalsidase beta; may increase infusion rate (doubling the infusion rate every 30 minutes) to a maximum rate of 0.25 mg/minute as tolerated.

**Adverse Reactions**

$>10\%$ :

Cardiovascular: Peripheral edema (21%), hypertension (14%)

Central nervous system: Chills (43%), headache (39%), paresthesia (31%), procedural pain (25%), fatigue (24%), dizziness (21%), pain (16%), sensation of cold (11%)

Dermatologic: Skin rash (20%)

Immunologic: Development of IgG Antibodies (69% to 79%)

Local: Infusion site reaction (50% to 55%, severe  $\geq 5\%$ )

Neuromuscular & skeletal: Limb pain (19%), back pain (16%), myalgia (14%)

Respiratory: Upper respiratory tract infection (44%), cough (33%), nasal congestion (19%), lower respiratory tract infection (18%)

Miscellaneous: Fever (39%)

1% to 10%:

Cardiovascular: Tachycardia (9%), bradycardia ( $\geq 5\%$ ), chest discomfort ( $\geq 5\%$ ), chest pain ( $\geq 5\%$ ), facial edema ( $\geq 5\%$ ), flushing ( $\geq 5\%$ ), hypotension ( $\geq 5\%$ ), ventricular hypertrophy (5%)

Central nervous system: Hypoesthesia (9%), anxiety (6%), burning sensation (6%), depression (6%), falling (6%)

Dermatologic: Pruritus (10%), excoriation (9%), pallor ( $\geq 5\%$ ), urticaria ( $\geq 5\%$ ), thermal injury (4%)

Gastrointestinal: Toothache (6%), abdominal pain ( $\geq 5\%$ ), diarrhea ( $\geq 5\%$ ), nausea ( $\geq 5\%$ ), vomiting ( $\geq 5\%$ ), xerostomia (4%)

Hematologic & oncologic: Bruise (4%)

Hypersensitivity: Anaphylaxis, hypersensitivity reaction

Infection: Fungal infection (5%), viral infection (5%), localized infection (4%)

Neuromuscular & skeletal: Muscle spasm (5%)

Otic: Tinnitus (8%), hypoacusis (5%)

Renal: Increased serum creatinine (9%)

Respiratory: Sinusitis (9%), dyspnea (8%), respiratory congestion (8%), pharyngitis (6%), wheezing (6%), pharyngeal edema ( $\geq 5\%$ )

Miscellaneous: Procedural complications (postprocedure, 10%)