

Recombinant Human β -Galactosidase/GLB1 Protein (His Tag)

Catalog Number: PKSH033267

Note: Centrifuge before opening to ensure complete recovery of vial contents.

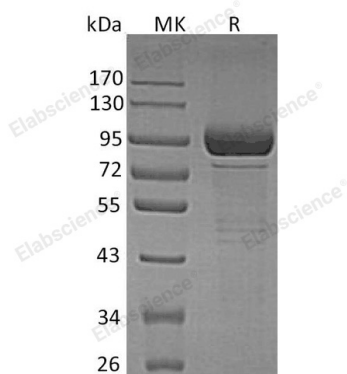
Description

| | |
|----------------------|---|
| Species | Human |
| Source | HEK293 Cells-derived Human β -Galactosidase/GLB1 protein Leu24-Val677, with an C-terminal His |
| Calculated MW | 74.6 kDa |
| Observed MW | 90 kDa |
| Accession | P16278 |
| Bio-activity | Not validated for activity |

Properties

| | |
|----------------------|--|
| Purity | > 95 % as determined by reducing SDS-PAGE. |
| Concentration | Subject to label value. |
| Endotoxin | < 1.0 EU per μ g of the protein as determined by the LAL method. |
| Storage | Store at -20°C , stable for 6 months. Please minimize freeze-thaw cycles. |
| Shipping | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at -20°C . |
| Formulation | Supplied as a 0.2 μ m filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0. |

Data



> 95 % as determined by reducing SDS-PAGE.

Background

β Galactosidase is a lysosomal β Galactosidase that hydrolyzes the terminal β Galactose from Ganglioside and Keratan sulfate. In lysosome, the mature β Galactosidase protein associates with Cathepsin A and Neuraminidase 1 to form the lysosomal multienzyme complex. An alternative splicing at the RNA level of β Galactosidase results a catalytically inactive β Galactosidase that plays an important role in vascular development. Defects of β -galactosidase (GLB1) are the cause of diseases like GM1-gangliosidosis which is a lysosomal storage disease and Morquio Syndrome B that cause patients to have abnormal elastic fibers. More than 100 mutations have been identified for β Galactosidase, which result in different residual activities of the mutant enzymes and a spectrum of symptoms in the two related diseases.