

## Recombinant Human $\beta$ -Galactosidase/GLB1 Protein (His Tag)

Catalog Number: PKSH033267

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

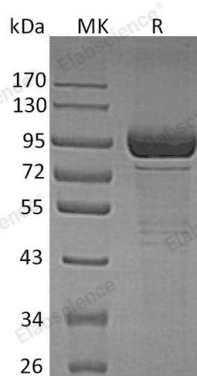
### Description

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

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Concentration</b>	Subject to label value.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	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.
<b>Formulation</b>	Supplied as a 0.2 $\mu$ m filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0.

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

$\beta$  Galactosidase is a lysosomal  $\beta$  Galactosidase that hydrolyzes the terminal  $\beta$  Galactose from Ganglioside and Keratan sulfate. In lysosome, the mature  $\beta$  Galactosidase protein associates with Cathepsin A and Neuraminidase 1 to form the lysosomal multienzyme complex. An alternative splicing at the RNA level of  $\beta$  Galactosidase results a catalytically inactive  $\beta$  Galactosidase that plays an important role in vascular development. Defects of  $\beta$ -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  $\beta$  Galactosidase, which result in different residual activities of the mutant enzymes and a spectrum of symptoms in the two related diseases.

### For Research Use Only

Toll-free: 1-888-852-8623  
Web: [www.elabscience.com](http://www.elabscience.com)

Tel: 1-832-243-6086  
Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

Fax: 1-832-243-6017