

Active Recombinant Human GLB1, His-tagged

Cat. No. GLB1-7790H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GLB1 (Met1-Val677) fused with 6His tag at Cterminal, was expressed in CHO Cells.
Species	Human
Source	CHO
ProteinLength	1-677 a.a.
Description	This gene encodes beta-galactosidase-1, a lysosomal enzyme that hydrolyzes the terminal beta-galactose from ganglioside substrates and other glycoconjugates. Defects in this gene are the cause of GM1-gangliosidosis and Morquio B syndrome. Multiple transcript variants encoding different isoforms have been found for this gene.
Predicted N Terminal	Leu24
Form	Supplied as a 0.2 µ filtered solution in Tris and NaCl.
Bio-activity	Measured by its ability to cleave a fluorogenic substrate, 4-Methylumbelliferyl-beta -D-galactopyranoside. The specific activity is >1,800 pmol/min/g.
Molecular Mass	74 kDa
Endotoxin	< 1.0 EU per 1 µg of the protein by the LAL method.

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Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane.
Stability	Avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 °C as supplied. 3 months, -20 to -70 °C under sterile conditions after opening.
GENE INFORMATION	
Gene Name	GLB1 galactosidase, beta 1 [Homo sapiens (human)]
Official Symbol	GLB1
Synonyms	GLB1; EBP; ELNR1; MPS4B; galactosidase, beta 1; beta-galactosidase; lactase; acid beta-galactosidase; elastin receptor 1, 67kDa; EC 3.2.1.23
Gene ID	2720
mRNA Refseq	NM_000404
Protein Refseq	NP_000395
MIM	611458
UniProt ID	P16278
Chromosome Location	3p21.33
Pathway	Galactose metabolism; Glycosaminoglycan degradation; HS-GAG degradation
Function	beta-galactosidase activity; galactoside binding; protein binding

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