

Recombinant Mouse Glb1 Protein, MYC/DDK-tagged

Cat. No. Glb1-706M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse galactosidase, beta 1 (Glb1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes a preproprotein that is proteolytically cleaved to yield a signal peptide and a proprotein that is subsequently processed to generate the active mature peptide. The encoded protein is a lysosomal enzyme that catalyzes the hydrolysis of terminal beta-D-galactose residues in various substrates like lactose, ganglioside GM1 and other glycoproteins. Mutations in the human gene are associated with GM1-gangliosidosis and Morquio B syndrome. Disruption of the mouse gene mirrors the symptoms of human gangliosidosis. Alternative splicing results in multiple transcript variants.
Molecular Mass	73 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Glb1 galactosidase, beta 1 [Mus musculus (house mouse)]
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Official Symbol	Glb1
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Synonyms	Glb1; galactosidase, beta 1; Bge; Bgl; Bgs; Bgt; Bgl-e; Bgl-s; Bgl-t; AW125515; C130097A14Rik; beta-galactosidase; acid beta-galactosidase; lactase; EC 3.2.1.23
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Gene ID	12091
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mRNA Refseq	NM_009752
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Protein Refseq	NP_033882
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UniProt ID	P23780
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