

## Recombinant Mouse Gba Protein, Myc/DDK-tagged

**Cat. No.** Gba-3165M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length glucosidase, beta, acid (Gba), with C-terminal MYC/DDK tag, expressed in HEK293T cells.   |
| <b>Species</b>          | Mouse   |
| <b>Source</b>           | HEK293  |
| <b>Description</b>      | <p>Glucosylceramidase that catalyzes, within the lysosomal compartment, the hydrolysis of glucosylceramide/GlcCer into free ceramide and glucose. Thereby, plays a central role in the degradation of complex lipids and the turnover of cellular membranes. Through the production of ceramides, participates in the PKC-activated salvage pathway of ceramide formation. Also plays a role in cholesterol metabolism. May either catalyze the glucosylation of cholesterol, through a transglucosylation reaction that transfers glucose from glucosylceramide to cholesterol. The short chain saturated C8:0-GlcCer and the mono-unsaturated C18:0-GlcCer being the most effective glucose donors for that transglucosylation reaction. Under specific conditions, may alternatively catalyze the reverse reaction, transferring glucose from cholesteryl-beta-D-glucoside to ceramide. Finally, may also hydrolyze cholesteryl-beta-D-glucoside to produce D-glucose and cholesterol.</p> |
| <b>Molecular Mass</b>   | 57.6 kDa  |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining   |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and   |

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handling conditions. Avoid repeated freeze-thaw cycles.

**Storage** Store at -80 centigrade after receiving vials.

**Concentration** >50 µg/mL as determined by microplate BCA method

**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** [Gba glucosidase, beta, acid \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** [Gba](#)

**Synonyms** GBA; glucosidase, beta, acid; glucosylceramidase; glucocerebrosidase; acid beta glucosidase; acid beta-glucosidase; beta-glucocerebrosidase; D-glucosyl-N-acylsphingosine glucohydrolase; GC; GBA1; GLUC; GCase; betaGC

**Gene ID** [14466](#)

**mRNA Refseq** [NM\\_008094](#)

**Protein Refseq** [NP\\_032120](#)

**UniProt ID** [P17439](#)

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