

Recombinant Mouse Gba2 Protein, Myc/DDK-tagged

Cat. No. Gba2-3166M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length glucosidase beta 2 (Gba2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Non-lysosomal glucosylceramidase that catalyzes the hydrolysis of glucosylceramide (GlcCer) to free glucose and ceramide. Glucosylceramides are membrane glycosphingolipids that have a wide intracellular distribution. They are the main precursors of more complex glycosphingolipids that play a role in cellular growth, differentiation, adhesion, signaling, cytoskeletal dynamics and membrane properties. Also involved in the transglucosylation of cholesterol, transferring glucose from glucosylceramides, thereby modifying its water solubility and biological properties. Under specific conditions, may catalyze the reverse reaction, transferring glucose from cholesteryl-beta-D-glucoside to ceramide. Finally, may also play a role in the metabolism of bile acids. It is able to hydrolyze bile acid 3-O-glucosides but also to produce bile acid-glucose conjugates thanks to a bile acid glucosyl transferase activity. However, the relevance of both activities is unclear in vivo.
Molecular Mass	103.7 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

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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 Gba2 glucosidase beta 2 [Mus musculus (house mouse)]

Official Symbol Gba2

Synonyms Gba2; glucosidase beta 2; F630034E04; non-lysosomal glucosylceramidase; NLGase; beta-glucocerebrosidase 2; beta-glucosidase 2; bile acid beta-glucosidase GBA2; bile acid glucosyl transferase GBA2; cholesterol glucosyltransferase GBA2; cholesteryl-beta-glucosidase GBA2; glucosidase, beta (bile acid) 2; glucosylceramidase 2; EC 3.2.1.45

Gene ID 230101

mRNA Refseq NM_172692

Protein Refseq NP_766280

UniProt ID Q69ZF3

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