

Product datasheet for TP508259

Gba (NM_008094) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse glucosidase, beta, acid (Gba), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR208259 protein sequence Red =Cloning site Green =Tags(s)

MAARLIGFFLFQAVSWAYGAQPCIPKSFYSSWVCVNASYCDSLDPVTLPALGTFSTRYESTRRGRMEL
SVGAIQANRTGTGLLLTLQPEKKFQKVKGFGGAMTDATALNILALSPPTQKLLRSYFSTNGIEYNIIRV
PMASCDFSIRVYTYADTPNDFQLSNFSLPEEDTKLKIPLIHQALKMSSRPISLFASPWTSPTWLKTNGRV
NGKGSCLKGQPGDIFHQTWANYFVKFLDAYAKYGLRFWAVTAENEPTAGLFTGYPFQCLGFTPEHQDFIS
RDLGPALANSSHDVKLLMLDDQRLLLPRWAEVVLSDPEAAKYVHGIAVHWYMDFLAPAKATLGETHRLFP
NTMLFASEACVGSKFWEQSVRLGSDRGMQYSHSIITNLLYHVTGWTDWNLALNPEGGPNWVRNFVDSPI
IVDIPKDAFYKQPMFYHLGHFSKFIPEGSQRVALVASESTDLETVALLRPDGSVWVWLNRSSEDEVPLTI
SDPDLGFLETVSPGYSIHTYLWRRQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	57.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_032120



[View online »](#)

Locus ID: 14466

UniProt ID: [P17439](#)

RefSeq Size: 2238

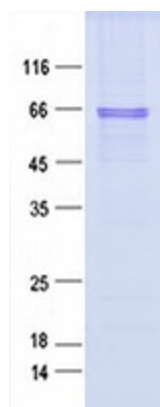
Cytogenetics: 3 39.01 cM

RefSeq ORF: 1548

Synonyms: betaGC; GBA1; GC; GCase; GLUC

Summary: Glucosylceramidase that catalyzes, within the lysosomal compartment, the hydrolysis of glucosylceramide/GlcCer into free ceramide and glucose (PubMed:24211208). Thereby, plays a central role in the degradation of complex lipids and the turnover of cellular membranes (PubMed:27378698). Through the production of ceramides, participates to the PKC-activated salvage pathway of ceramide formation (By similarity). Also plays a role in cholesterol metabolism (PubMed:24211208). May either catalyze the glucosylation of cholesterol, through a transglucosylation reaction that transfers glucose from glucosylceramide to cholesterol (PubMed:24211208). The short chain saturated C8:0-GlcCer and the mono-unsaturated C18:0-GlcCer being the most effective glucose donors for that transglucosylation reaction (By similarity). Under specific conditions, may alternatively catalyze the reverse reaction, transferring glucose from cholesteryl-beta-D-glucoside to ceramide (By similarity). Finally, may also hydrolyze cholesteryl-beta-D-glucoside to produce D-glucose and cholesterol (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Purified recombinant protein Gba was analyzed by SDS-PAGE gel and Coomassie Blue Staining.