

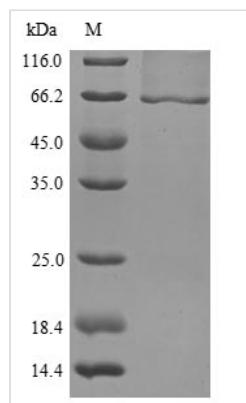


# Recombinant Mouse Lysosomal acid Glucosylceramidase (Gba1)

<b>Product Code</b>	CSB-YP009289MO
<b>Relevance</b>	Acid beta-glucosidaseBeta-glucocerebrosidaseD-glucosyl-N-acylsphingosine glucosylhydrolase
<b>Abbreviation</b>	Recombinant Mouse Gba1 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P17439
<b>Storage Buffer</b>	Tris-based buffer,50% glycerol
<b>Product Type</b>	Recombinant Proteins
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	AQPCIPKSFGYSSVVCVCNASYCDSLDPVTLPALGTFSRYESTRRGRMELSV GAIQANRTGTGLLLTLQPEKKFQKVKGFGGAMTDATLNLALSPPTQKLLLR YFSTNGIEYNIIRVPMASCDFSIRVYTYADTPNDFQLSNFSLPEEDTKLKIPLIHQ ALKMSSRPISLFASPWTSPTWLKTNNGRVNGKGSLSKQPGDIFHQTWANYFVK FLDAYAKYGLRFWAVTAENEPTAGLFTGYPFQCLGFTPEHQRDIFSRDLGPAL ANSSHDVKLLMLDDQRLLLPRWAEVVLSDPEAAKYVHGIHVHWMDFLAPAK ATLGETHRLFPNTMLFASEACVGSKFWEQSVRLGSWDRGMQYSHSIITNLLY HVTGWTDWNLALNPEGGPNWVRNFDSPHVDIPKDAFYKQPMFYHLGHFSK FIPEGSQRVALVASESTDLETVALLRPDGSAAVVVLNRSSDEVPLTISDPDLGF LETVSPGYSIHTYLWRRQ
<b>Research Area</b>	Metabolism
<b>Source</b>	Yeast
<b>Target Names</b>	Gba1
<b>Protein Names</b>	Recommended name: Glucosylceramidase EC= 3.2.1.45Alternative name(s): Acid beta-glucosidase Beta-glucocerebrosidase D-glucosyl-N-acylsphingosine glucosylhydrolase
<b>Expression Region</b>	20-515aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	57.5 kDa
<b>Protein Length</b>	Full Length of Mature Protein



## Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

Recombinant Full-length of mature Mouse Lysosomal acid Glucosylceramidase (Gba) with a 6xHis-tag at the N-terminus is produced in the yeast. It contains 20-515aa of mouse Gba. The SDS-PAGE measured its purity by up to 90%. On the reducing SDS-PAGE gel, the Gba protein migrated to a band of approximately 65 kDa. In addition to being used to produce specific antibodies, this recombinant Gba protein also may be applied to study its catalytic substrate-related metabolism.

Gba is a lysosomal enzyme that catalyzes the hydrolysis of glucosylceramide into ceramide and glucose. Genetic deficiency of Gba results in the accumulation of glucosylceramide in the lysosomes of macrophages, inducing the transformation of macrophages into Gaucher cells. The Gaucher cells infiltrate various organs such as bone marrow, spleen, and liver and are responsible for Gaucher's disease (GD), a recessively inherited disorder that affects the central nervous system to varying degrees.

## Shelf Life

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