Active Recombinant Human GBA, His-tagged

Cat. No. GBA-22H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GBA, fused with C-terminal 6-His tag, was expressed in CHO Cells.
Species	Human
Source	CHO
Description	This gene encodes a lysosomal membrane protein that cleaves the beta-glucosidic linkage of glycosylceramide, an intermediate in glycolipid metabolism. Mutations in this gene cause Gaucher disease, a lysosomal storage disease characterized by an accumulation of glucocerebrosides. A related pseudogene is approximately 12 kb downstream of this gene on chromosome 1. Alternative splicing results in multiple transcript variants.
Predicted N Terminal	Ala40
Form	Supplied as a 0.2 μm filtered solution in Tris, NaCl, Glycerol and DTT.
Bio-activity	Measured by its ability to hydrolyze 4-methylumbelliferyl-beta-D-glucopyranoside.
Molecular Mass	Predicted Molecular Mass: 56 kDaSDS-PAGE: 58-75 kDa, reducing conditions
Endotoxin	< 1.0 eu per 1 μg of the protein by the lal
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal

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	Coomassie® Blue stain at 5 μg per lane.
Storage	Avoid repeated freeze-thaw cycles.6 months from date of receipt, -70 °C as supplied.3 months, -70 °C under sterile conditions after opening.

GENE INFORMATION

Gene Name	GBA glucosidase, beta, acid [Homo sapiens]
Official Symbol	GBA
Synonyms	GBA; GCB; GBA1; GLUC; glucosidase, beta, acid; glucosylceramidase; beta-GC; alglucerase; imiglucerase; acid beta-glucosidase; beta-glucocerebrosidase; lysosomal glucocerebrosidase; D-glucosyl-N-acylsphingosine glucohydrolase; NP_000148.2; EC 3.2.1.45; NP_001005741.1; NP_001005742.1; NP_001165282.1; NP_001165283.1
Gene ID	2629
mRNA Refseq	NM_000157
Protein Refseq	NP_000148
MIM	606463
UniProt ID	P04062
Chromosome Location	1q21
Pathway	Glycosphingolipid metabolism; Other glycan degradation; Sphingolipid metabolism

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Function	glucosylceramidase activity; protein binding; receptor binding

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