

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 kDa SDS-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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