Recombinant Human GBA

Cat. No. GBA-28984TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GBA with a N terminal proprietary tag: predicted molecular weight 84.70 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	536 amino acids
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.
Molecular Weight	84.700kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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	cycles.
Sequences of amino acids	MEFSSPSREECPKPLSRVSIIAGSLTGLLLLQAVSWASGA RPCIPKSFGYSSVVCVC NATYCDSFDPPTFPALGTFSRYE STRSGRRMELSMGPIQANHTGTGLLLTLQPEQK FQKVKGF GGAMTDAAALNILALSPPAQNLLLKSYFSEEGIGYNIIRV PMASCDFSIRT YTYADTPDDFQLHNFSLPEEDTKLKIPLI HRALQLAQRPVSLLASPWTSPTWLKTNG AVNGKGSLKGQP GDIYHQTWARYFVKFLDAYAEHKLQFWAVTAENEPSAGLL SGY PFQCLGFTPEHQRDFIARDLGPTLANSTHHNVRLLML DDQRLLLPHWAKVVLTDPE AAKYVHGIAVHWYLDFLAPAK ATLGETHRLFPNTMLFASEACVGSKFWEQSVRLGS WDRGM QYSHSIITNLLYHVVGWTDWNLALNPEGGPNWVRNFVDSP IIVDITKDTFY KQPMFYHLGHFSKFIPEGSQRVGLVASQK NDLDAVALMHPDGSAVVVVLNRSSKD VPLTIKDPAVGFLE TISPGYSIHTYLWRRQ
Sequence Similarities	Belongs to the glycosyl hydrolase 30 family.

GENE INFORMATION

Gene Name	GBA glucosidase, beta, acid [Homo sapiens]
Official Symbol	GBA
Synonyms	GBA; glucosidase, beta, acid; GLUC, glucosidase, beta; acid (includes glucosylceramidase) , glucosylceramidase; glucosylceramidase; GBA1;
Gene ID	2629
mRNA Refseq	NM_000157
Protein Refseq	NP_000148

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MIM	606463
Uniprot ID	P04062
Chromosome Location	1q22
Pathway	Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; Metabolic pathways, organism-specific biosystem; Other glycan degradation, organism-specific biosystem; Other glycan degradation, conserved biosystem;
Function	cation binding; glucosylceramidase activity; hydrolase activity, acting on glycosyl bonds; receptor binding;

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