

Recombinant Full Length Human GBA3 Protein, GST-tagged

Cat. No. GBA3-5518HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human GBA3 full-length ORF (BAG36006.1, 1 a.a. - 469 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	469 amino acids
Description	GBA3, or cytosolic beta-glucosidase (EC 3.2.1.21), is a predominantly liver enzyme that efficiently hydrolyzes beta-D-glucoside and beta-D-galactoside, but not any known physiologic beta-glycoside, suggesting that it may be involved in detoxification of plant glycosides (de Graaf et al., 2001 [PubMed 11389701]). GBA3 also has significant neutral glycosylceramidase activity (EC 3.2.1.62), suggesting that it may be involved in a nonlysosomal catabolic pathway of glucosylceramide metabolism (Hayashi et al., 2007 [PubMed 17595169]).[supplied by OMIM
Molecular Mass	77.99 kDa
AA Sequence	MAFPAGFGWAAATAAYQVEGGWDADGKGPCVWDTFTHQGGERVFKNQTDGVAC GSYTLWEEDLKCICKQLGLTHYRFSLSWSRLLPDGTTGFINQKIDYNNKIIDDLLKNG VTPIVTLYHFDLPQTLEDQGGWLSEAIIESFDKYAQFCFSTFGDRVKQWITINEANVL SVMSYDLGMFPPGIPHFGTGGYQAAHNLIKAHARSWHSYDSLFRKKQKGMVLSLFL AVWLEPADPNSVSDQEAAKRAITFHLDLFAKPIFIDGDYPEVVKSQIASMSQKQGY SSRLPEFTEEEKMIKGTADFFAVQYYTTRLIKQENKKGELGILQDAEIEFFPDPSPW

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KNVDWIYVVPWGVCKLLKYIKDTYNNPVIYITENGFQSDPAPLDDTQRWEYFRQTF
 QELFKAIQLDKVNLQVYCAWSLLDNFEWNQGYSSRFGLFHVDFEDPARPRVPYTSA
 KEYAKIIRNNGLEAHL

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	GBA3 glucosidase, beta, acid 3 (cytosolic) [Homo sapiens]
Official Symbol	GBA3
Synonyms	GBA3; glucosidase, beta, acid 3 (cytosolic); cytosolic beta-glucosidase; GLUC; klotho related protein; KLrP; klotho-related protein; cytosolic beta-glucosidase-like protein 1; CBGL1; MGC104276; MGC126878;
Gene ID	57733
mRNA Refseq	NM_001128432
Protein Refseq	NP_001121904

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MIM	606619
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UniProt ID	Q9H227
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