

## Recombinant Human GBA3 Protein, GST-tagged

Cat. No. GBA3-4768H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human GBA3 full-length ORF (BAG36006.1, 1 a.a. - 469 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	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
<b>Molecular Mass</b>	77.99 kDa
<b>AA Sequence</b>	MAFPAGFGWAAATAAYQVEGGWDADGKGPCVWDTFTHQGGERVFKNQTDGVAC GSYTLWEEDLKCQLGLTHYRFSLSWSRLLPDGTTGFINQKIDYNNKIIDDLLKNG VTPIVTLYHFDLPQTLEDQGGWLSEAIIESFDKYAQFCFSTFGDRVKQWITINEANVL SVMSYDLGMFPPGIPHFGTGGYQAAHNLIKAHARSWHSYDSLFRKKQKGMVSLSLF AVWLEPADPNSVSDQEAAKRAITFHLDLFAKPIFIDGDYPEVVKSQIASMSQKQGY SSRLPEFTEEEKMIKGTADFFAVQYYTTRLIKYQENKKGELGILQDAEIEFFPDPSW KNVDWIYVVPWGVCKLLKYIKDTYNNPVIYITENGFQSDPAPLDDTQRWEYFRQTF

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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](#)

**MIM** [606619](#)

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