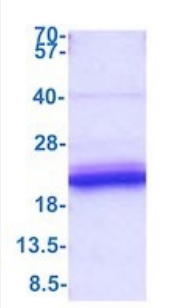
Full-Length

GBA3 (Human) Recombinant Protein

Catalog # P7700 Size 500 ug

Applications



SDS-PAGE analysis of GBA3 (Human) Recombinant Protein

Specification

Product Description	Human GBA3 (NP_066024, 1 a.a. - 469 a.a) full-length recombinant protein with His tag expressed in *Escherichia coli*.
Sequence	MGSSHHHHHHSSGLVPRGSHMGSMAFPAGFGWAAATAAYQVEGGWDADGKGPCVWDTFTHQGGERVFKNQTGDVACGSYTLWEEDLKCIKQLGLTHYRFSLSWSRLLPDGTTGFINQKGIDYYNKIIDDLLKNGVTPIVTLYHFDLPQTLEDQGGWLSEAIIESFDKYAQFCFSTFGDRVKQWITINEANVLSVMSYDLGMFPPGIPHFGTGGYQAAHNLIKAHARSWHSYDSLFRKKQKGMVSLSLFAVWLEPADPNSVSDQEAAKRAITFHLDLFAKPIFIDGDYPEVVKSQIASMSQKQGYPSSRLPEFTEEEKKMIKGTADFFAVQYYTTRLIKYQENKKGELGILQDAEIEFFPDPSWKNVDWIYVVPWGVCKLLKYIKDTYNNPVIYITENGFPQSDPAPLDDTQRWEYFRQTFQELFKAIQLDKVNLQVYCAWSLLDNFEWNQGYSSRFGLFHVDFEDPARPRVPYTSAKEYAKIIRNNGLEAHL
Host	Escherichia coli
Theoretical MW (kDa)	56.1
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Concentration	0.25mg/mL
Purity	> 85% by SDS-PAGE

Quality Control Testing	3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain. SDS-PAGE analysis of GBA3 (Human) Recombinant Protein
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (1 mM DTT, 20% glycerol).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — GBA3

Entrez GeneID	57733
Protein Accession#	Q9H227
Gene Name	GBA3
Gene Alias	CBGL1, GLUC, KLrP, MGC104276, MGC126878
Gene Description	glucosidase, beta, acid 3 (cytosolic)
Omim ID	606619
Gene Ontology	Hyperlink
Gene Summary	GBA3, or cytosolic beta-glucosidase (EC 3.2.1.21), is a predominantly liver enzyme that efficientl y hydrolyzes beta-D-glucoside and beta-D-galactoside, but not any known physiologic beta-glyco side, 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 me tabolism (Hayashi et al., 2007 [PubMed 17595169]).[supplied by OMIM
Other Designations	cytosolic beta-glucosidase|klotho-related protein

Pathway

- Cyanoamino acid metabolism

- Phenylpropanoid biosynthesis
- Starch and sucrose metabolism