Datasheet for ABIN7547864

GBA3 Protein (AA 1-469) (His tag)

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Overview

Quantity:	1 mg
Target:	GBA3
Protein Characteristics:	AA 1-469
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GBA3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant GBA3 Protein expressed in mammalian cells.
Sequence:	MAFPAGFGWA AATAAYQVEG GWDADGKGPC VWDTFTHQGG ERVFKNQTGD VACGSYTLWE EDLKCIKQLG LTHYRFSLSW SRLLPDGTTG FINQKGIDYY NKIIDDLLKN GVTPIVTLYH FDLPQTLEDQ GGWLSEAIIE SFDKYAQFCF STFGDRVKQW ITINEANVLS VMSYDLGMFP PGIPHFGTGG YQAAHNLIKA HARSWHSYDS LFRKKQKGMV SLSLFAVWLE PADPNSVSDQ EAAKRAITFH LDLFAKPIFI DGDYPEVVKS QIASMSQKQG YPSSRLPEFT EEEKKMIKGT ADFFAVQYYT TRLIKYQENK KGELGILQDA EIEFFPDPSW KNVDWIYVVP WGVCKLLKYI KDTYNNPVIY ITENGFPQSD PAPLDDTQRW EYFRQTFQEL FKAIQLDKVN LQVYCAWSLL DNFEWNQGYS SRFGLFHVDF EDPARPRVPY TSAKEYAKII RNNGLEAHL **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

	isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	GBA3
Alternative Name:	GBA3 (GBA3 Products)
Background:	Cytosolic beta-glucosidase (EC 3.2.1.21) (Cytosolic beta-glucosidase-like protein 1) (Cytosolic galactosylceramidase) (EC 3.2.1.46) (Cytosolic glucosylceramidase) (EC 3.2.1.45) (Cytosolic glycosylceramidase) (Cytosolic GCase) (Glucosidase beta acid 3) (Glucosylceramidase beta 3) (Klotho-related protein) (KLrP),FUNCTION: Neutral cytosolic beta-glycosidase with a broad substrate specificity that could play a role in the catabolism of glycosylceramides (PubMed:11389701, PubMed:11784319, PubMed:20728381, PubMed:26724485, PubMed:17595169, PubMed:33361282). Has a significant glucosylceramidase activity in vitro (PubMed:26724485, PubMed:17595169). However, that activity is relatively low and its significance in vivo is not clear (PubMed:26724485, PubMed:17595169, PubMed:20728381). Hydrolyzes galactosylceramides/GalCers, glucosylsphingosines/GlcSphs and galactosylsphingosines/GalSphs (PubMed:17595169). However, the in vivo relevance of these activities is unclear (PubMed:17595169). It can also hydrolyze a broad variety of dietary

Target Details

	glycosides including phytoestrogens, flavonols, flavones, flavanones and cyanogens in vitro and could therefore play a role in the metabolism of xenobiotics (PubMed:11784319). Possesses transxylosylase activity in vitro using xylosylated ceramides/XylCers (such as beta-D-xylosyl-(1<->1')-N-acylsphing-4-enine) as xylosyl donors and cholesterol as acceptor (PubMed:33361282). Could also play a role in the catabolism of cytosolic sialyl free N-glycans (PubMed:26193330). {ECO:0000269|PubMed:11389701, ECO:0000269|PubMed:11784319, ECO:0000269|PubMed:17595169, ECO:0000269|PubMed:20728381, ECO:0000269|PubMed:26193330, ECO:0000269|PubMed:26724485, ECO:0000269|PubMed:33361282}.
Molecular Weight:	53.7 kDa
UniProt:	Q9H227

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months