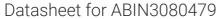
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GBA3 Protein (AA 1-469) (Strep Tag)



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Quantity:	1 mg
Target:	GBA3
Protein Characteristics:	AA 1-469
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GBA3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

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 Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- · Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 will ensure that you receive a correctly folded protein.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- · We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Product Details >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) 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 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

Application Details

Q9H227

Application Notes:

UniProt:

In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a

Application Details

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	guarantee though.		
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from		
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce		
	even the most difficult-to-express proteins, including those that require post-translational		
	modifications.		
	During lysate production, the cell wall and other cellular components that are not required for		
	protein production are removed, leaving only the protein production machinery and the		
	mitochondria to drive the reaction. During our lysate completion steps, the additional		
	components needed for protein production (amino acids, cofactors, etc.) are added to produce		
	something that functions like a cell, but without the constraints of a living system - all that's		
	needed is the DNA that codes for the desired protein!		
Restrictions:	For Research Use only		
Handling			
Format:	Liquid		
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request,		
	please contact us.		
Handling Advice:	Avoid repeated freeze-thaw cycles.		
Storage:	-80 °C		
Storage Comment:	Store at -80°C.		
Expiry Date:	Unlimited (if stored properly)		