

Datasheet for ABIN7552507  
**B3GNT1 Protein (AA 1-415) (His tag)**



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## Overview

Quantity:	1 mg
Target:	B3GNT1
Protein Characteristics:	AA 1-415
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This B3GNT1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant B4GAT1 Protein expressed in mammalian cells.
Sequence:	<p>MQMSYAIRCA FYQLLLAALM LVAMLQLLYL SLLSGLHGQE EQDQYFEFFP PSPRSVDQVK AQLRTALASG GVLDAAGDYR VYRGLLKTTM DPNDVILATH ASVDNLLHLS GLLERWEGPL SVSVFAATKE EAQLATVLAY ALSSHCPDMR ARVAMHLVCP SRYEAAVPDP REPGEFALLR SCQEVFDKLA RVAQPGINYA LGTNVSYPPN LLRNLAREGA NYALVIDVDM VPSEGLWRGL REMLDQSNQW GGTALVVPF EIRRARRMPM NKNELVQLYQ VGEVRPFYFG LCTPCQAPTN YSRWVNLPEE SLLRPAYVVP WQDPWEPFYV AGGKVPTFDE RFRQYGFNRI SQACELHVAG FDFEVLNEGF LVHKGFKAL KFHPQKEAEN QHNKILYRQF KQELKAKYPN SPRRC <b>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.</b></p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

## Product Details

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### 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.

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### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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### Grade:

custom-made

## Target Details

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### Target:

B3GNT1

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### Alternative Name:

B4GAT1 ([B3GNT1 Products](#))

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### Background:

Beta-1,4-glucuronyltransferase 1 (EC 2.4.1.-) (I-beta-1,3-N-acetylglucosaminyltransferase) (iGnT) (N-acetyllactosaminide beta-1,3-N-acetylglucosaminyltransferase) (Poly-N-acetyllactosamine extension enzyme) (UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 1),FUNCTION: Beta-1,4-glucuronyltransferase involved in O-mannosylation of alpha-dystroglycan (DAG1) (PubMed:19587235, PubMed:23359570, PubMed:25279699, PubMed:25279697). Transfers a glucuronic acid (GlcA) residue onto a xylose (Xyl) acceptor to produce the glucuronyl-beta-1,4-xylose-beta disaccharide primer, which is further elongated by LARGE1, during synthesis of phosphorylated O-mannosyl glycan (PubMed:25279699, PubMed:25279697). Phosphorylated O-mannosyl glycan is a carbohydrate structure present in alpha-dystroglycan (DAG1), which is required for binding laminin G-like domain-containing extracellular proteins with high affinity (PubMed:25279699, PubMed:25279697). Required for axon guidance, via its function in O-mannosylation of alpha-dystroglycan (DAG1) (By similarity). {ECO:0000250|UniProtKB:Q8BWP8,

## Target Details

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ECO:0000269|PubMed:19587235, ECO:0000269|PubMed:23359570,  
ECO:0000269|PubMed:25279697, ECO:0000269|PubMed:25279699}.

Molecular Weight: 47.1 kDa

UniProt: [O43505](#)

Pathways: [Glycosaminoglycan Metabolic Process](#)

## Application Details

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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

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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