

Datasheet for ABIN7552648  
**B3GNT5 Protein (AA 1-378) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	B3GNT5
Protein Characteristics:	AA 1-378
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This B3GNT5 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant B3GNT5 Protein expressed in mammalian cells.
Sequence:	MRMLVSGRRV KKWQLIIQLF ATCFLASLMF FWEPIDNHIV SHMKSYSYRY LINSYDFVND TSLKHTSAG PRYQYLINHK EKCQAQDVLL LLFVKTAPEN YDRRSGIRRT WGNENYVRSQ LNANIKTLFA LGTPNPLEGE ELQRKLAWED QRYNDIIQQD FVDSFYNLTL KLLMQFSWAN TYCPHAKFLM TADDDIFIHM PNLIEYLQSL EQIGVQDFWI GRVHRGAPPI RDKSSKYYVS YEMYQWPAYP DYTAGAAYVI SGDVAAKVYE ASQTLNSSLY IDDFVMGLCA NKIGIVPQDH VFFSPEGKTP YHPCIEKMM TSHGHLEDLQ DLWKNATDPK VKTISKGFFG QIYCRLMKII LLCKISYVDT YPCRAAFI <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>
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.
Characteristics:	Key Benefits:

## Product Details

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- 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)
Grade:	custom-made

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## Target Details

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Target:	B3GNT5
Alternative Name:	B3GNT5 ( <a href="#">B3GNT5 Products</a> )
Background:	Lactosylceramide 1,3-N-acetyl-beta-D-glucosaminyltransferase (EC 2.4.1.206) (Lactotriaosylceramide synthase) (Lc(3)Cer synthase) (Lc3 synthase) (UDP-GlcNAc:beta-Gal beta-1,3-N-acetylglucosaminyltransferase 5) (BGnT-5) (Beta-1,3-Gn-T5) (Beta-1,3-N-acetylglucosaminyltransferase 5) (Beta3Gn-T5),FUNCTION: Beta-1,3-N-acetylglucosaminyltransferase that plays a key role in the synthesis of lacto- or neolacto-series carbohydrate chains on glycolipids, notably by participating in biosynthesis of HNK-1 and Lewis X carbohydrate structures. Has strong activity toward lactosylceramide (LacCer) and neolactotetraosylceramide (nLc(4)Cer, paragloboside), resulting in the synthesis of Lc(3)Cer and neolactopentaosylceramide (nLc(5)Cer), respectively. Probably plays a central role in regulating neolacto-series glycolipid synthesis during embryonic development. {ECO:0000269 PubMed:11283017, ECO:0000269 PubMed:11384981}.
Molecular Weight:	44.1 kDa
UniProt:	<a href="#">Q9BYG0</a>

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## 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.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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