

Datasheet for ABIN7552546  
**B3GNT7 Protein (AA 1-401) (His tag)**



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## Overview

Quantity:	1 mg
Target:	B3GNT7
Protein Characteristics:	AA 1-401
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This B3GNT7 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant B3GNT7 Protein expressed in mammalian cells.
Sequence:	<p>MSLWKKTVYR SLCLALALLV AVTVFQRSLT PGQFLQEPPP PTLEPQKAQK PNGQLVNPNN FWKNPKDVAA PTPMASQGPQ AWDVTTTNCN ANINLTHQPW FQVLEPQFRQ FLFYRHCRYF PMLLNHPEKC RGDVYLLVVV KSVITQHRRR EAIRQTWGRE RQSAGGGRGA VRTLFLLGTA SKQEERTHYQ QLLAYEDRLY GDILQWGFLD TFFNLTLKEI HFLKWLDIYC PHVPIFKGD DDVFNPTNL LEFLADRQPQ ENLFVGDVLQ HARPIRRKDN KYIIPGALYG KASYPPYAGG GGFLMAGSLA RRLHHACDTL ELYPIDDVFL GMCLEVLGVQ PTAHEGFKTF GISRNRSRM NKEPCFFRAM LVVHKLLPPE LLAMWGLVHS NLTCRKLQV L <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:

B3GNT7

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### Alternative Name:

B3GNT7 ([B3GNT7 Products](#))

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### Background:

UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7 (BGnT-7) (Beta-1,3-Gn-T7) (Beta-1,3-N-acetylglucosaminyltransferase 7) (Beta3Gn-T7) (EC 2.4.1.-),FUNCTION: N-acetylglucosamine (GlcNAc) transferase that catalyzes the transfer of GlcNAc via a beta1->3 linkage from UDP-GlcNAc to the non-reducing terminal galactose (Gal) in the linearly growing chain of N- and O-linked keratan sulfate proteoglycans. Cooperates with B4GALT4 galactosyltransferase and CHST6 and CHST1 sulfotransferases to construct and elongate mono- and disulfated disaccharide units [->3Galbeta1->4(6-sulfoGlcNAcbeta)1->] and [->3(6-sulfoGalbeta)1->4(6-sulfoGlcNAcbeta)1->] within keratan sulfate polymer (PubMed:14706853, PubMed:17690104). Involved in biosynthesis of N-linked keratan sulfate proteoglycans in cornea, with an impact on proteoglycan fibril organization and corneal transparency (PubMed:17690104) (By similarity). May play a role in the maintenance of tissue architecture by suppressing cellular motility and invasion (By similarity). {ECO:0000250|UniProtKB:Q8K0J2, ECO:0000269|PubMed:14706853, ECO:0000269|PubMed:17690104}.

## Target Details

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Molecular Weight: 46.0 kDa

UniProt: [Q8NFLO](#)

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