

Datasheet for ABIN7559436
B3GNT7 Protein (AA 1-397) (His tag)



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Overview

Quantity:	1 mg
Target:	B3GNT7
Protein Characteristics:	AA 1-397
Origin:	Mouse
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>MSLWKKTLYK SVCLALALLV AVTVFQRSVT PGQFLQDPLP PTPGPAKTGN LVNPNSFWKS SKDVAAPTPT VPRGPQWVDV ITTNCSININ LTHQPWFQSL EPHFRQFLAY RHCYFPMLL NHPEKCAGDV YMLVVVKSVI TQHDRREVIR QTWGH EWESA GLRGAVRTL FLLGTASKQE ERTHYQQLLA YEDRLYADIL QWDFLDSFFN LTLKEIHFLK WLDIYCPNVP FVFKGDDDFV VNPTNLLEFL SDRQPQENLF VGDVLKHARP IRKKDNKYYI PAVMYGKATY PPYAGGGGFL MSGSLARQLH HACDTLELFP IDDVFLGMCL EVLGVKPTGH EGFKFTGISR VRSSRMNKEP CFYRAMLVVH KLLPAELLAM WDLVHSNLTC SVKFQVL 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.</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

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:

B3GNT7

Alternative Name:

B3gnt7 ([B3GNT7 Products](#))

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 (By similarity). Involved in biosynthesis of N-linked keratan sulfate proteoglycans in cornea, with an impact on proteoglycan fibril organization and corneal transparency (PubMed:29625490). May play a role in the maintenance of tissue architecture by suppressing cellular motility and invasion (PubMed:12061784). {ECO:0000250|UniProtKB:Q8NFL0, ECO:0000269|PubMed:12061784, ECO:0000269|PubMed:29625490}.

Target Details

Molecular Weight:	45.4 kDa
UniProt:	Q8K0J2
Pathways:	Glycosaminoglycan Metabolic Process

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