

Datasheet for ABIN7546000

ST6GALNAC1 Protein (AA 1-600) (His tag)



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Overview

Quantity:	1 mg
Target:	ST6GALNAC1
Protein Characteristics:	AA 1-600
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ST6GALNAC1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ST6GALNAC1 Protein expressed in mammalian cells.
Sequence:	<p> MRSCWLRCRH LSQGVQWSLL LAVLVFFLFA LPSFIKEPQT KPSRHQRTEN IKERSLQSLA KPKSQAPTRA RRTTIYAEPV PENNALNTQT QPKAHTTGDR GKEANQAPPE EQDKVPHTAQ RAAWKSPEKE KTMVNTLSPR GQDAGMASGR TEAQSWKSQD TKTTQGNNGGQ TRKLTASRTV SEKHQGAAT TAKTLIPKSQ HRMLAPTGA V STRTRQKGV TAVIPPKEKK PQATPPPAPF QSPTTQRNQR LKAANFKSEP RWD FEEKYSF EIGGLQTTCP DSVKIKASKS LWLQKLFLPN LTLFLDSRHF NQSEWDRLEH FAPPFGFME L NYSLVQKVVT RFPPVPQQQL LLASLPAGSL RCITCAVVGN GGILNNSHMG QEIDSHDYVF RLSGALIKGY EQDVGTRTSF YGFTAFLSTQ SLLILGNRGF KNPVPLGKDVR YLHFLEGTRD YEWLEALLMN QTVMSKNLFW FRHRPQEA FR EALHMDRYLL LHPDFLRYMK NRFLRSKTL D GAHWRIYRPT TGALLLLTAL QLCDQVSAYG FITEGHERFS DHYYDTSWKR LIFYINHDFK LEREVWKRLH DEGIIRLYQR PGP GTAKAKN </p> <p>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.</p>

In case you have a special request, please contact us.

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:**

- 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: ST6GALNAC1

Alternative Name: ST6GALNAC1 ([ST6GALNAC1 Products](#))

Background: Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 1 (EC 2.4.3.3) (GalNAc alpha-2,6-sialyltransferase I) (ST6GalNAc I) (ST6GalNAc-I) (ST6GalNAcI) (hST6GalNAc-I) (Sialyltransferase 7A) (SIAT7-A),FUNCTION: Protein sialyltransferase specifically expressed in goblet cells that plays a key role in intestinal host-commensal homeostasis (PubMed:35303419). Conjugates sialic acid with an alpha-2-6 linkage to N-acetylgalactosamine (GalNAc) glycan chains linked to serine or threonine in glycoproteins (PubMed:16319059, PubMed:35303419). Catalyzes the formation of the sialyl-Tn (S-Tn) antigen, an antigen found in intestinal goblet cells, as well as ulcerative colitis (UC) and various cancers (PubMed:16319059, PubMed:35303419). Protein sialylation in goblet cells is essential for mucus integrity and is required to protect the intestinal mucus against excessive bacterial proteolytic degradation

Target Details

	(PubMed:35303419). {ECO:0000269 PubMed:16319059, ECO:0000269 PubMed:35303419}.
Molecular Weight:	68.6 kDa
UniProt:	Q9NSC7

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