Datasheet for ABIN7546056

ST6GALNAC6 Protein (AA 1-333) (His tag)

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Overview

Quantity:	1 mg
Target:	ST6GALNAC6
Protein Characteristics:	AA 1-333
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ST6GALNAC6 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ST6GALNAC6 Protein expressed in mammalian cells.
Sequence:	MACSRPPSQC EPTSLPPGPP AGRRHLPLSR RRREMSSNKE QRSAVFVILF ALITILILYS SNSANEVFHY GSLRGRSRRP VNLKKWSITD GYVPILGNKT LPSRCHQCVI VSSSSHLLGT KLGPEIERAE CTIRMNDAPT TGYSADVGNK TTYRVVAHSS VFRVLRRPQE FVNRTPETVF IFWGPPSKMQ KPQGSLVRVI QRAGLVFPNM EAYAVSPGRM RQFDDLFRGE TGKDREKSHS WLSTGWFTMV IAVELCDHVH VYGMVPPNYC SQRPRLQRMP YHYYEPKGPD ECVTYIQNEH SRKGNHHRFI TEKRVFSSWA QLYGITFSHP SWT **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.**
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

- 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:	ST6GALNAC6
Alternative Name:	ST6GALNAC6 (ST6GALNAC6 Products)
Background:	Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 6 (EC 2.4.99.-) (GalNAc alpha-2,6-sialyltransferase VI) (ST6GalNAc VI) (ST6GalNAcVI) (hST6GalNAc VI) (Sialyltransferase 7F) (SIAT7-F),FUNCTION: Transfers the sialyl group (N-acetyl-alpha-neuraminyl or NeuAc) from CMP-NeuAc onto glycoproteins and glycolipids, forming an alpha-2,6-linkage. Produces branched type disialyl structures by transfer of a sialyl group onto the GalNAc or GlcNAc residue inside backbone core chains having a terminal sialic acid with an alpha-2,3-linkage on Gal. ST6GalNAcVI prefers glycolipids to glycoproteins, predominantly catalyzing the biosynthesis of ganglioside GD1alpha from GM1b (PubMed:12668675, PubMed:17123352). Besides GMb1, MSGG and other glycolipids, it shows activity towards sialyl Lc4Cer generating disialyl Lc4Cer, which can lead to the synthesis of disialyl Lewis a (Le(a)), suggested to be a cancer-associated antigen (PubMed:12668675). Also has activity toward GD1a and GT1b, and can generate DSGG (disialylgalactosylgloboside) from MSGG (monosialylgalactosylgloboside) (By similarity). {ECO:0000250|UniProtKB:Q9JM95, ECO:0000269|PubMed:12668675, ECO:0000269|PubMed:17123352}.

Target Details

Molecular Weight:	38.1 kDa
UniProt:	Q969X2

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

