

Datasheet for ABIN7546057

ST3GAL5 Protein (AA 1-418) (His tag)



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Overview

Quantity:	1 mg
Target:	ST3GAL5
Protein Characteristics:	AA 1-418
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ST3GAL5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ST3GAL5 Protein expressed in mammalian cells.
Sequence:	<p>MRTKAAGCAE RRPLQPRTEA AAPAGRAMP SEYTYVKLRS DCSRPSLQWY TRAQSKMRRP SLLKDKILKC TLLVFGVWIL YILKLNYYTE ECDMKKMHYV DPDHVKRAQK YAQQVLQKEC RPKFAKTSMA LLFEHRYSDV LLPFVQKAPK DSEAESKYDP PFGFRKFSSK VQTLELLPE HDLPEHLKAK TCRRCVVIGS GGILHGLELG HTLNQFDVVI RLNSAPVEGY SEHVGNKTTI RMTYPEGAPL SDLEYYSNDL FVAVLFKSVD FNWLQAMVKK ETLPFWWRLF FWKQVAEKIP LQPKHFRILN PVIKETAFD ILQYSEPSR FWGRDKNVPT IGVI AVLAT HLCDEVSLAG FGYDLNQPRP PLHYFDSQCM AAMNFQTMHN VTTETKFLK LVKEGVVKDL SGGIDREF</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> <p>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:

ST3GAL5

Alternative Name:

ST3GAL5 ([ST3GAL5 Products](#))

Background:

Lactosylceramide alpha-2,3-sialyltransferase (EC 2.4.3.9) (CMP-NeuAc:lactosylceramide alpha-2,3-sialyltransferase) (GM3 synthase) (Ganglioside GM3 synthase) (ST3Gal V) (ST3GalV) (Sialyltransferase 9),FUNCTION: Transfers the sialyl group (N-acetyl-alpha-neuraminy or NeuAc) from CMP-NeuAc to the non-reducing terminal galactose (Gal) of glycosphingolipids forming gangliosides (important molecules involved in the regulation of multiple cellular processes, including cell proliferation and differentiation, apoptosis, embryogenesis, development, and oncogenesis) (PubMed:9822625, PubMed:16934889). Mainly involved in the biosynthesis of ganglioside GM3 but can also use different glycolipids as substrate acceptors such as D-galactosylceramide (GalCer), asialo-GM2 (GA2) and asialo-GM1 (GA1), although less preferentially than beta-D-Gal-(1->4)-beta-D-Glc-(1<->1)-Cer (LacCer) (PubMed:16934889). {ECO:0000269|PubMed:16934889, ECO:0000269|PubMed:9822625}.

Molecular Weight:

48.0 kDa

UniProt:

[Q9UNP4](#)

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