

Datasheet for ABIN7562667  
**ST3GAL5 Protein (AA 1-414) (His tag)**



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## Overview

Quantity:	1 mg
Target:	ST3GAL5
Protein Characteristics:	AA 1-414
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ST3GAL5 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat St3gal5 Protein expressed in mammalien cells.
Sequence:	MHTEAVGGAA RRPQKLRSQA AAPACRAMPS EFTSAKLRSD CSRTSLQWYT RTQHKMRRPS LLIKDICKCT LVAFGVWLLY ILILNYTAE CDMKRMHYVD PDRIKRAQSY AQEVLQKECR PRYAKTAMAL LFEDRYSINL EPFVQKVPTA SEAELKYDPP FGFRKFSSKV QSLLDMLPEH DFPEHLRAKA CKRCVVVGN GILHGLELGH ALNQFDVVIR LNSAPVEGYS EHVGNKTTIR MTYPEGAPLS DVEYYANDLF VTVLFKSVDF KWLQAMVKNE SLPFWVRLFF WKQVAEKVPL QPKHFRILNP VIKETAFDI LQYSEPSRF WGHDKNIPTI GVIAVVLATH LCDEVSLAGF GYDLSQPRTP LHYFDSQCMG AMHWQVMHNV TTETKFLKLL LKEGVVEDLS GGIH <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>
Characteristics:	Key Benefits:

## Product Details

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- 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, Western Blot

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Grade: custom-made

## Target Details

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Target: ST3GAL5

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Alternative Name: St3gal5 ([ST3GAL5 Products](#))

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Background: Lactosylceramide alpha-2,3-sialyltransferase (EC 2.4.3.9) (CMP-NeuAc:lactosylceramide alpha-2,3-sialyltransferase) (Ganglioside GM3 synthase) (ST3Gal V) (ST3GalV) (Sialyltransferase 9),FUNCTION: (Microbial infection) Gangliosides GD1b and GT1b (derived from GM3) may serve as receptors for some C.botulinum neurotoxins (minimally types BoNT/A, B, C) (PubMed:16115873). {ECO:0000305|PubMed:16115873}, FUNCTION: Transfers the sialyl group (N-acetyl-alpha-neuraminyl 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:9875239, PubMed:10092602, PubMed:12629211). 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) (By similarity). {ECO:0000250|UniProtKB:Q9UNP4, ECO:0000269|PubMed:10092602,

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## Target Details

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ECO:0000269|PubMed:12629211, ECO:0000269|PubMed:9875239}.

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Molecular Weight: 47.4 kDa

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UniProt: [O88829](#)

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## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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