

Datasheet for ABIN7546021

## ST8SIA1 Protein (AA 1-356) (His tag)



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### Overview

Quantity:	1 mg
Target:	ST8SIA1
Protein Characteristics:	AA 1-356
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ST8SIA1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Purpose:	Custom-made recombinat ST8SIA1 Protein expressed in mammalian cells.
Sequence:	<p>MSPCGRARRQ TSRGAMAVLA WKFPRTLPM GASALCVVVL CWLYIFPVYR LPNEKEIVQG            VLQQGTAWRR NQTAARAFRK QMEDCCDPAH LFAMTKMNSP MGKSMWYDGE FLYSFTIDNS            TYSLFPQATP FQLPLKKCAV VGNGGILKKS GCGRQIDEAN FVMRCNLPLP SSEYTKDVGS            KSQLVTANPS IIRQRFQNL WSRKTFVDNM KIYNHSYIYM PAFSMKTGTE PSLRVVYTLS            DVGANQTVLF ANPNFLRSIG KFWKSRGIHA KRLSTGLFLV SAALGLCEEV AIYGFWPFSV            NMHEQPISHH YYDNVLPFSG FHAMPEEFLQ LWYLHKIGAL RMQLDPCEDT SLQPTS</p> <p><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></p>
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, Western Blot
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Grade:	custom-made
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## Target Details

Target:	ST8SIA1
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Alternative Name:	ST8SIA1 ( <a href="#">ST8SIA1 Products</a> )
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Background:	Alpha-N-acetylneuraminide alpha-2,8-sialyltransferase (EC 2.4.3.8) (Alpha-2,8-sialyltransferase 8A) (Ganglioside GD3 synthase) (Ganglioside GT3 synthase) (Sialyltransferase 8A) (SIAT8-A) (Sialyltransferase St8Sia I) (ST8Sial),FUNCTION: Catalyzes the addition of sialic acid in alpha 2,8-linkage to the sialic acid moiety of the ganglioside GM3 to form ganglioside GD3, gangliosides are a subfamily of complex glycosphingolipids that contain one or more residues of sialic acid (PubMed:7937974, PubMed:8058740, PubMed:8195250, PubMed:8631981, PubMed:8706663, PubMed:18348864, PubMed:22885356). Can catalyze the addition of a second alpha-2,8-sialic acid to GD3 to form GT3 (PubMed:8631981). Can use GM1b, GD1a and GT1b as acceptor substrates to synthesize GD1c, GT1a and GQ1b respectively (PubMed:8706663). Can synthesize unusual tetra- and pentasialylated lactosylceramide derivatives identified as GQ3 (II3Neu5Ac4-Gg2Cer) and GP3 (II3Neu5Ac5-Gg2Cer) in breast cancer cells (PubMed:22885356). {ECO:0000269 PubMed:18348864, ECO:0000269 PubMed:22885356, ECO:0000269 PubMed:7937974, ECO:0000269 PubMed:8058740, ECO:0000269 PubMed:8195250,
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## Target Details

	ECO:0000269 PubMed:8631981, ECO:0000269 PubMed:8706663}.
Molecular Weight:	40.5 kDa
UniProt:	<a href="#">Q92185</a>

## Application Details

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.
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