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Datasheet for ABIN7557850  
**ST8SIA3 Protein (AA 1-380) (His tag)**

## Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 1 mg   |
| Target:                       | ST8SIA3  |
| Protein Characteristics:      | AA 1-380                                       |
| Origin:                       | Mouse  |
| Source:                       | HEK-293 Cells                                  |
| Protein Type:                 | Recombinant                                    |
| Purification tag / Conjugate: | This ST8SIA3 protein is labelled with His tag. |
| Application:                  | Western Blotting (WB), SDS-PAGE (SDS)          |

## Product Details

|                  |  |
|------------------|--|
| Purpose:         | Custom-made recombinat St8sia3 Protein expressed in mammalien cells.   |
| Sequence:        | MRNCKMARVA SVLGLVMLSV ALLILSLISY VSLKKENIFT TPKYASPGAP RMYMFHAGFR<br>SQFALKFLDQ SFVPITNSLT HELQEKPSKW TFNRTAFLHQ RQEILQHVDV IKNFSLTKSS<br>VRIGQLMHYD YSSHKYVFSI SNNFRSLLPD VSPIMNKRYN VCAVVGNSGI LTGSQCGQEI<br>DKSDFVFRCN FAPTEAFHKD VGRKTNLTTF NPSILEKYYN NLLTIQDRNN FFLSLKLDG<br>AILWIPAFFH HTSATVTRTL VDFVVEHRGQ LKVQLAWPGN IMQHVNRYYWK NKHLSPKRLS<br>TGILMYTLAS AICEEIHLYG FWPFGFDNT REDLPYHYYD KKGTKFTTKW QESHQLPAEF<br>QLLYRMHGEG LTKLTLSHCA <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: ST8SIA3

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Alternative Name: St8sia3 ([ST8SIA3 Products](#))

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Background: Alpha-N-acetylneuraminase alpha-2,8-sialyltransferase ST8SIA3 (EC 2.4.3.-) (Alpha-2,8-sialyltransferase 8C) (Alpha-2,8-sialyltransferase III) (Ganglioside GD3 synthase ST8SIA3) (EC 2.4.3.8) (ST8 alpha-N-acetyl-neuraminidase alpha-2,8-sialyltransferase 3) (Sia alpha 2,3Gal beta 1,4GlcNAc alpha 2,8-sialyltransferase) (Sialyltransferase 8C) (SIAT8-C) (Sialyltransferase St8Sia III) (ST8SiaIII),FUNCTION: Catalyzes the transfer of sialic acid from a CMP-linked sialic acid donor onto a terminal alpha-2,3-, alpha-2,6-, or alpha-2,8-linked sialic acid of an acceptor, such as N-linked oligosaccharides of glycoproteins and glycolipids through alpha-2,8-linkages (PubMed:7782326). Forms oligosialic and polysialic acid on various sialylated N-acetylglucosamine oligosaccharides of glycoproteins, including FETUB N-glycans, alpha-2-HS-glycoprotein (AHSG) and alpha 2,3-sialylated glycosphingolipids, such as alpha 2,3-sialylparagloboside and ganglioside GM3 and to a lesser extent NCAM1 N-glycans (PubMed:7782326). However, it is much more specific to N-linked oligosaccharides of glycoproteins than glycosphingolipids (PubMed:7782326). 2,3-sialylparagloboside served as the best acceptor substrate among the glycolipids (PubMed:7782326). alpha-Neu5Ac-(2->8)-alpha-

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## Target Details

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Neu5Ac-(2->3)-beta-D-Gal-(1->4)-6S-D-GlcNAc and monosialyl and disialyl N-acetyllactosamines are the best acceptor substrates among glycoproteins (By similarity). May play critical role in the striatum by mediating the formation of disialylated and trisialylated terminal glycotopes on N- and O-glycans of specific striatal proteins, regulating their distribution in lipid rafts, affecting their interaction with other binding partners, and subsequently modulating striatal functions (PubMed:31455764).  
{ECO:0000250|UniProtKB:O43173, ECO:0000269|PubMed:31455764, ECO:0000269|PubMed:7782326}.

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Molecular Weight: 43.9 kDa

UniProt: [Q64689](#)

## 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

## Handling

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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