Datasheet for ABIN7555481

ST8SIA3 Protein (AA 1-380) (His tag)

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Overview

Quantity:	1 mg
Target:	ST8SIA3
Protein Characteristics:	AA 1-380
Origin:	Human
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 SQFALKFLDP SFVPITNSLT QELQEKPSKW KFNRTAFLHQ RQEILQHVDV IKNFSLTKNS VRIGQLMHYD YSSHKYVFSI SNNFRSLLPD VSPIMNKHYN ICAVVGNSGI LTGSQCGQEI DKSDFVFRCN FAPTEAFQRD VGRKTNLTTF NPSILEKYYN NLLTIQDRNN FFLSLKKLDG AILWIPAFFF HTSATVTRTL VDFFVEHRGQ LKVQLAWPGN IMQHVNRYWK NKHLSPKRLS TGILMYTLAS AICEEIHLYG FWPFGFDPNT REDLPYHYYD KKGTKFTTKW QESHQLPAEF QLLYRMHGEG LTKLTLSHCA **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.**
Characteristics:	Key Benefits:

Product Details

	• Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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
Grade:	custom-made

Target Details

Target:	ST8SIA3
Alternative Name:	ST8SIA3 (ST8SIA3 Products)
Background:	Alpha-N-acetylneuraminate 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-neuraminide alpha-2,8-sialyltransferase 3) (Sia-a2,3-Gal-b1,4-Glc-NAc-R:a2,8-sialyltransferase) (hST8Sia III) (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:9826427, PubMed:26192331, PubMed:10766765). Forms oligosialic and polysialic acid on various sialylated N-acetyllactosamine oligosaccharides of glycoproteins, including FETUB N-glycans, a2-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:9826427, PubMed:10766765). However, it is much more specific to N-linked oligosaccharides of glycoproteins than glycosphingolipids (By similarity). 2,3-sialylparagloboside serves as the best acceptor substrate among the glycolipids (By similarity).

Target Details

	alpha-Neu5Ac-(2->8)-alpha-Neu5Ac-(2->3)-beta-D-Gal-(1->4)-6S-D-GlcNAc and monosialyl and disialyl N-acetyllactosamines are the best acceptor substrates among glycoproteins (PubMed:26192331, PubMed:10766765). May plays 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 (By similarity). {ECO:0000250|UniProtKB:Q64689, ECO:0000269|PubMed:10766765, ECO:0000269|PubMed:26192331, ECO:0000269|PubMed:9826427}.
Molecular Weight:	44.0 kDa
UniProt:	O43173

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