Datasheet for ABIN7562364

ST8SIA2 Protein (AA 1-375) (His tag)

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Overview

Quantity:	1 mg
Target:	ST8SIA2
Protein Characteristics:	AA 1-375
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ST8SIA2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat St8sia2 Protein expressed in mammalien cells.
Sequence:	MQLQFRSWML AALTLLVVFL IFADISEIEE EIGNSGGRGT IRSAVNSLHS KSNRAEVVIN GSSPPAVADR SNESLKHNIQ PASSKWRHNQ TLSLRIRKQI LKFLDAEKDI SVLKGTLKPG DIIHYIFDRD STMNVSQNLY ELLPRTSPLK NKHFQTCAIV GNSGVLLNSG CGQEIDTHSF VIRCNLAPVQ EYARDVGLKT DLVTMNPSVI QRAFEDLVNA TWREKLLQRL HGLNGSILWI PAFMARGGKE RVEWVNALIL KHHVNVRTAY PSLRLLHAVR GYWLTNKVHI KRPTTGLLMY TLATRFCNQI YLYGFWPFPL DQNQNPVKYH YYDSLKYGYT SQASPHTMPL EFKALKSLHE QGALKLTVGQ CDGAT **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:	ST8SIA2
Alternative Name:	St8sia2 (ST8SIA2 Products)
Background:	Alpha-2,8-sialyltransferase 8B (EC 2.4.3.-) (Polysialic acid synthase) (Sialyltransferase 8B) (SIAT8-B) (Sialyltransferase St8Sia II) (ST8SiaII) (Sialyltransferase X) (STX),FUNCTION: Catalyzes the transfer of a 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 N-linked glycan acceptor through alpha-2,8-linkages (PubMed:7875291). Therefore, participates in polysialic acid synthesis on various sialylated N-acetyllactosaminyl oligosaccharides (alpha-2,3-, alpha-2,6-, or alpha-2,8-linked sialic acid), including NCAM1, NCAM1 N-glycans, FETUB N-glycans, and to a lesser extent sialylparagloboside (SPG) and AHSG, which does not require the initial addition of an alpha 2,8-sialic acid (By similarity). However, does not exhibit sialic acid-polymerase activity (PubMed:7875291). Catalyzes polysialic acid synthesis in the hippocampal on NCAM1 and supports neurite outgrowth (PubMed:7875291). ST8SIA2-mediated polysialylation influences on oligodendrocyte differentiation and may promote the integrity of myelin and axons (PubMed:27534376). {ECO:0000250|UniProtKB:Q92186, ECO:0000269|PubMed:27534376, ECO:0000269|PubMed:7875291}.

Target Details

Molecular Weight:	42.4 kDa
UniProt:	O35696

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

