Datasheet for ABIN7560098

ST3GAL4 Protein (AA 1-333) (His tag)

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Overview

Quantity:	1 mg
Target:	ST3GAL4
Protein Characteristics:	AA 1-333
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ST3GAL4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant St3gal4 Protein expressed in mammalian cells.
Sequence:	MTSKSHWKLL ALALVLVVVM VWYSISREDR YIEFFYFPIS EKKEPCFQGE AERQASKIFG NRSREQPIFL QLKDYFWVKT PSTYELPFGT KGSEDLLLRV LAITSYSIPE SIKSLECRRC VVVGNGHRLR NSSLGGVINK YDVVIRLNNA PVAGYEGDVG SKTTIRLFYP ESAHFDPKIE NNPDTLLVLV AFKAMDFHWI ETILSDKKRV RKGFWKQPPL IWDVNPKQVR ILNPFFMEIA ADKLLSLPIQ QPRKIKQKPT TGLLAITLAL HLCDLVHIAG FGYPDASNKK QTIHYYEQIT LKSMAGSGHN VSQEAIAIKR MLEMGAVKNL TYF **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	ST3GAL4
Alternative Name:	St3gal4 (ST3GAL4 Products)
Background:	CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,3-sialyltransferase 4 (Alpha 2,3-ST 4) (Beta-galactoside alpha-2,3-sialyltransferase 4) (EC 2.4.3.2) (EC 2.4.3.4) (Alpha 2,3-sialyltransferase IV) (Gal-beta-1,3-GalNAc-alpha-2,3-sialyltransferase) (Gal-beta-1,4-GlcNAc-alpha-2,3-sialyltransferase) (N-acetyllactosaminide alpha-2,3-sialyltransferase) (EC 2.4.3.6) (ST3Gal IV) (ST3GalIV) (Sialyltransferase 4C) (SIAT4-C),FUNCTION: A beta-galactoside alpha2-3 sialyltransferase involved in terminal sialylation of glycoproteins and glycolipids (PubMed:12097641) (By similarity). Catalyzes the transfer of sialic acid (N-acetyl-neuraminic acid, Neu5Ac) from the nucleotide sugar donor CMP-Neu5Ac onto acceptor Galbeta-(1->3)-GalNAc- and Galbeta-(1->4)-GlcNAc-terminated glycoconjugates through an alpha2-3 linkage (PubMed:9184827) (By similarity). Plays a major role in hemostasis. Responsible for sialylation of plasma VWF/von Willebrand factor, preventing its recognition by asialoglycoprotein receptors (ASGPR) and subsequent clearance. Regulates ASGPR-mediated clearance of platelets (PubMed:12097641). Participates in the biosynthesis of the sialyl Lewis X epitopes, both on O- and N-glycans, which are recognized by SELE/E-selectin, SELP/P-selectin and

Target Details

	SELL/L-selectin. Essential for selectin-mediated rolling and adhesion of leukocytes during extravasation (PubMed:25498912). Contributes to adhesion and transendothelial migration of neutrophils likely through terminal sialylation of CXCR2 (PubMed:18519646). In glycosphingolipid biosynthesis, sialylates GM1 and GA1 gangliosides to form GD1a and GM1b, respectively (By similarity). Metabolizes brain c-series ganglioside GT1c forming GQ1c (By similarity). Synthesizes ganglioside LM1 (IV3Neu5Ac-nLc4Cer), a major structural component of peripheral nerve myelin (By similarity). {ECO:0000250|UniProtKB:P61131, ECO:0000250|UniProtKB:Q11206, ECO:0000269|PubMed:12097641, ECO:0000269|PubMed:18519646, ECO:0000269|PubMed:25498912, ECO:0000269|PubMed:9184827}.
Molecular Weight:	38.1 kDa
UniProt:	Q91Y74
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	We expect the protein to work for functional studies. 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