Datasheet for ABIN7546123

alpha-N-Acetylgalactosaminide alpha-2,6-Sialyltransferase 3 (SIA7C) (AA 1-305) protein (His tag)

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Overview

Quantity:	1 mg
Target:	alpha-N-Acetylgalactosaminide alpha-2,6-Sialyltransferase 3 (SIA7C)
Protein Characteristics:	AA 1-305
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat ST6GALNAC3 Protein expressed in mammalien cells.
Sequence:	MACILKRKSV IAVSFIAAFL FLLVVRLVNE VNFPLLLNCF GQPGTKWIPF SYTYRRPLRT HYGYINVKTQ EPLQLDCDLC AIVSNSGQMV GQKVGNEIDR SSCIWRMNNA PTKGYEEDVG RMTMIRVVSH TSVPLLLKNP DYFFKEANTT IYVIWGPFRN MRKDGNGIVY NMLKKTVGIY PNAQIYVTTE KRMSYCDGVF KKETGKDRVQ SGSYLSTGWF TFLLAMDACY GIHVYGMIND TYCKTEGYRK VPYHYYEQGR DECDEYFLHE HAPYGGHRFI TEKKVFAKWA KKHRIIFTHP NWTLS **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: • Made to order protein - from design to production - by highly experienced protein experts.

Product Details

	• 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:	alpha-N-Acetylgalactosaminide alpha-2,6-Sialyltransferase 3 (SIA7C)
Alternative Name:	ST6GALNAC3 (SIA7C Products)
Background:	Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 3 (EC 2.4.3.7) (GalNAc alpha-2,6-sialyltransferase III) (ST6GalNAc III) (ST6GalNAcIII) (STY) (Sialyltransferase 7C) (SIAT7-C),FUNCTION: Transfers the sialyl group (N-acetyl-alpha-neuraminyl or NeuAc) from CMP-NeuAc to the GalNAc residue on the NeuAc-alpha-2,3-Gal-beta-1,3-GalNAc sequence of glycoproteins and glycolipids forming an alpha-2,6-linkage. Produces branched type disialyl structures by transfer of a sialyl group onto a GalNAc residue inside the backbone core chains. ST6GalNAcIII prefers glycolipids to glycoproteins, predominantly catalyzing the biosynthesis of ganglioside GD1alpha from GM1b (PubMed:16169874, PubMed:17123352). GD1alpha is a critical molecule in the communication and interaction between neuronal cells and their supportive cells, particularly in brain tissues, and functions as an adhesion molecule in the process of metastasis (By similarity). Sialylation of glycoproteins or glycosphingolipids is very important in tumor development, neuronal development, nerve repair, immunological processes and regulation of hormone sensitivity (PubMed:17123352). {ECO:0000250|UniProtKB:Q9QYJ1, ECO:0000269|PubMed:16169874, ECO:0000269|PubMed:17123352}.
Molecular Weight:	35.4 kDa

Target Details

UniProt:	Q8NDV1

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