

Active Recombinant Full Length Human ST6GALNAC4 Protein, His tagged

Cat. No. ST6GALNAC4-01HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active recombinant full length human ST6GALNAC4 Protein (Thr36-Arg302) with a C-terminal 6-His tag was expressed in Mouse myeloma cell line.
Species	Human
Source	Mouse myeloma cell line
ProteinLength	1-302 aa
Description	The protein encoded by this gene is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. The encoded protein prefers glycoproteins rather than glycolipids as substrates and shows restricted substrate specificity, utilizing only the trisaccharide sequence Neu5Ac-alpha-2, 3-Gal-beta-1,3-GalNAc. In addition, it is involved in the synthesis of ganglioside GD1A from GM1B. The encoded protein is normally found in the Golgi apparatus but can be proteolytically processed to a soluble form. This protein is a member of glycosyltransferase family 29. Transcript variants encoding different isoforms have been found for this gene. Readthrough transcripts exist for this gene and the downstream ST6GALNAC6 gene.
Form	Supplied as a 0.2 µm filtered solution in Tris and NaCl.
Bio-activity	Measured by its ability to transfer Neu5Ac from CMP-Neu5Ac to fetuin of fetal calf serum. The specific activity is >1000

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	pmol/min/μg, as measured under the described conditions.
Molecular Mass	31 kDa
Endotoxin	<1.0 EU/μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue stain at 5 μg per lane.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70 centigrade as supplied. 3 months, -70 centigrade under sterile conditions after opening.
Shipping	The product is shipped with dry ice or equivalent.
Reference	1. Harduin-Lepers, A. et al. (2005) Glycobiology 15:805. 2. Harduin-Lepers, A. et al. (2000) Biochem. J. 352:37. 3. Lee, Y. C. et al. (1999) J. Biol. Chem. 274:11958.
N-terminal Sequence Analysis	Thr36 and Leu38

GENE INFORMATION

Gene Name	ST6GALNAC4 ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 4 [Homo sapiens (human)]
Official Symbol	ST6GALNAC4
Synonyms	ST6GALNAC4; ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 4; IV; SIAT3C; SIAT7D; SIAT3-C; SIAT7-D; ST6GalNAc; ST6GALNACIV; alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3-N-acetyl-galactosaminide alpha-2,6-

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sialyltransferase; NeuAc-alpha-2,3-Gal-beta-1,3-GalNAc-alpha-2, 6-sialyltransferase alpha2,6-sialyltransferase; NeuAc-alpha-2,3-Gal-beta-1,3-GalNAc-alpha-2,6-sialyltransferase IV; ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetylglactosaminide alpha-2,6-sialyltransferase 4; ST6 GalNAc alpha-2,6-sialyltransferase 4; ST6 neuraminy-2,3-beta-galactosyl-1,3)-N-acetylglactosaminidealpha-2,6-sialyltransferase 4; sialyltransferase 3C; sialyltransferase 7D ((alpha-N-acetylneuraminy-2,3-beta-galactosyl-1,3)-N-acetyl galactosaminide alpha-2,6-sialyltransferase); EC 2.4.3.7

Gene ID	27090
mRNA Refseq	NM_175039
Protein Refseq	NP_778204
MIM	606378
UniProt ID	Q9H4F1