

Recombinant Mouse St6galnac3 Protein, Myc/DDK-tagged

Cat. No. St6galnac3-6153M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1, 3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 3 (St6galnac3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Transfers the sialyl group (N-acetyl-alpha-neuraminy or NeuAc) from CMP-NeuAc to the GalNAc residue on the NeuAc-alpha-2,3-Gal-beta-1,3-GalNAc sequence of glyco proteins and glycolipids forming an alpha-2,6-linkage. Produces branched type disialyl I 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. 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. Sialylation of glycoproteins or glycosphingolipids is very important in tumor development, neuronal development, nerve repair, immunological processes and regulation of hormone sensitivity.
Molecular Mass	35.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name St6galnac3 ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylglactosaminide alpha-2,6-sialyltransferase 3 [*Mus musculus* (house mouse)]

Official Symbol St6galnac3

Synonyms St6galnac3; ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylglactosaminide alpha-2,6-sialyltransferase 3; Sia; Siat7c; alpha-N-acetylglactosaminide alpha-2,6-sialyltransferase 3; SIAT7-C; ST6GalNAc III; ST6GalNAcIII; STY; galNAc alpha-2,6-sialyltransferase III; sialyltransferase 7 ((alpha-N-acetylneuraminyl 2,3-betagalactosyl-1,3)-N-acetyl galactosaminide alpha-2,6-sialyltransferase) C; sialyltransferase 7C; EC 2.4.99.7

Gene ID 20447

mRNA Refseq NM_011372

Protein Refseq NP_035502

UniProt ID Q9WUV2

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