

Active Recombinant Human ST6GALNAC1 Protein (AA 36-600), N-6×His/GFP tagged

Cat. No. ST6GALNAC1-17H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ST6GALNAC1 Protein (AA 36-600) with N-6×His/GFP tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	AA 36-600
Description	Glycosylation of proteins affects cell-cell interaction, interactions with the matrix, and the functions of intracellular molecules. ST6GALNAC1 transfers a sialic acid, N-acetylneuraminic acid (NeuAc), in an alpha-2,6 linkage to O-linked GalNAc residues. The cancer-associated sialyl-Tn (sTn) antigen is formed by ST6GALNAC1-catalyzed sialylation of GalNAc residues on mucins (Ikehara et al., 1999 [PubMed 10536037]; Sewell et al., 2006 [PubMed 16319059]).
Bio-activity	≥0.1 μmol/min/mg
Molecular Mass	~90 kDa
AA Sequence	MRSLWRCRHLSSQGVQWSLLAVLVFFLFALPSFIKEPQTKPSRHQRTENIKERSLQ SLAKPKSQAPTRARRTTIYAEPVPENNALNTQTQPKAHTTGDRGKEANQAPPEEQD KVPHTAQRAAWKSPEKEKTMVNTLSPRGQDAGMASGRTEASWKSQDTKTTKGN GGQTRKLTASRTVSEKHQGAATTAKTLIPKSQHRMLAPTGAVSTRTRQKGVTAVI

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PPKEKKPQATPPPAPFQSPTTQRNQRLKAANFKSEPRWDFEEKYSFEIGGLQTTCP
 DSVKIKASKSLWLQKLFLPNLTLFLDSRHFNQSEWDRLEHFAPPFGFMELNYSLVQK
 VVTRFPPVPQQQLLLASLPAGSLRCITCAVVGNGGILNNSHIGQEIDSHDYVFRLSGA
 LIKGYEQDVGTRTSFYGFTAFSLTQSLILGNRGFKNVPLGKAQTPGSFSGSPAHGQ
 VPVAAPRLSPIHEEQVSEV

Purity >95%, by SDS-PAGE under reducing conditions and visualized by Coomassie Blue stain.

Stability 6 months if stored at -80 centigrade. Avoid repeated freeze thaws.

Concentration 1 mg/mL

Storage Buffer Supplied as a 0.2 µm filtered solution in 20mM HEPES pH 7.0 and 100mM NaCl buffer, with 10% Glycerol.

Preservative 0.05 % NaN₃

Shipping This product is shipped as 0.2µm filtered product on dry ice.

GENE INFORMATION

Gene Name ST6GALNAC1 ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetylglactosaminide alpha-2,6-sialyltransferase 1 [Homo sapiens (human)]

Official Symbol ST6GALNAC1

Synonyms ST6GALNAC1; ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetylglactosaminide alpha-2,6-sialyltransferase 1; sialyltransferase 7 ((alpha N acetylneuraminy-2,3 beta galactosyl 1,3) N acetyl galactosaminide alpha 2,6 sialyltransferase) A , SIAT7A; alpha-N-acetylglactosaminide alpha-2,6-

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sialyltransferase 1; ST6GalNAcI; SIAT7-A; ST6GalNAc I; sialyltransferase 7A; galNAc alpha-2,6-sialyltransferase I; GalNAc alpha-2, 6-sialyltransferase I, long form; sialyltransferase 7 ((alpha-N-acetylneuraminyI-2,3-beta-galactosyl-1,3)-N-acetyl galactosaminide alpha-2,6-sialyltransferase) A; STYI; SIAT7A; HSY11339;

Gene ID [55808](#)

mRNA Refseq [NM_018414](#)

Protein Refseq [AAH22462](#)

MIM [610138](#)

UniProt ID [Q9NSC7](#)

SDS-PAGE

