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

Cat. No. ST6GALNAC1-15H **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	MRSCLWRCRHLSQGVQWSLLLAVLVFFLFALPSFIKEPQTKPSRHQRTENIKERSLQ SLAKPKSQAPTRARRTTIYAEPVPENNALNTQTQPKAHTTGDRGKEANQAPPEEQD KVPHTAQRAAWKSPEKEKTMVNTLSPRGQDAGMASGRTEAQSWKSQDTKTTKGN GGQTRKLTASRTVSEKHQGKAATTAKTLIPKSQHRMLAPTGAVSTRTRQKGVTTAVI

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	PPKEKKPQATPPPAPFQSPTTQRNQRLKAANFKSEPRWDFEEKYSFEIGGLQTTCP DSVKIKASKSLWLQKLFLPNLTLFLDSRHFNQSEWDRLEHFAPPFGFMELNYSLVQK VVTRFPPVPQQQLLLASLPAGSLRCITCAVVGNGGILNNSHIGQEIDSHDYVFRLSGA LIKGYEQDVGTRTSFYGFTAFSLTQSLLILGNRGFKNVPLGKAQTPGSFSGSPAHGQ 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-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 1 [Homo sapiens (human)]
Official Symbol	ST6GALNAC1
Synonyms	ST6GALNAC1; ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 1; sialyltransferase 7 ((alpha N acetylneuraminyl 2,3 beta galactosyl 1,3) N acetyl galactosaminide alpha 2,6 sialyltransferase) A , SIAT7A; alpha-N-acetylgalactosaminide 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-acetylneuraminyl-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

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