

Recombinant Human ST6GALNAC2, His-tagged

Cat. No. ST6GALNAC2-195H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ST6 Sialyltransferase 2/ST6GALNAC2 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Met1-Arg374) of Human ST6GALNAC2 fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	1-374 a.a.
Description	Alpha-N-Acetylgalactosaminide α -2,6-Sialyltransferase 2 (ST6GALNAC2) belongs to the glycosyltransferase 29 family that adds sialic acids to the non-reducing ends of glycoconjugates. At the cell surface, these modifications play roles in cell-cell and cell-substrate interactions, bacterial adhesion and protein targeting. ST6GALNAC2 is localized to the Golgi apparatus membrane. ST6GALNAC2 is highly expressed in lactating mammary glands and the adult testis; it is expressed at lower levels in the kidney. ST6GALNAC2 can catalyze 2,6-sialylation of the Tn antigen.
AA Sequence	SAVQRYPGPAAGARDTTSFEAFFQSKASNSWTGKGQACRHLHLAIQRHPHFRGLF NLSIPVLLW GDLFTPALWDRLSQHKAPYGWRGLSHQ VASTLSLLNGSESAKLFAP PRDTPPKCIRCAVVGN GGILNGSRQGPNIADHDYVFRLNG AVIKGFERDVGTCTSF YGFTVNTMKNLSVSYWNLGFTSV PQGQDLQYIFIPSDIRDYVML RSAILGVPVPEGL DKGDRPHAYFGPEASASKFKLLHPDFISY LTERFLKSKLINTHFGDL YMPSTGALML

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LTALHTCDQVSAYGFITSNYWKFS DHYFERKMKPL IFYANHDL SLEAALW RDLHKA
GILQLYQR

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by reducing SDS-PAGE.

GENE INFORMATION

Gene Name ST6GALNAC2 ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetyl galactosaminide alpha-2,6-sialyltransferase 2 [Homo sapiens]

Official Symbol ST6GALNAC2

Synonyms ST6GALNAC2; ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetyl galactosaminide alpha-2,6-sialyltransferase 2; sialyltransferase 7 ((alpha N acetylneuraminy 2,3 beta galactosyl 1,3) N acetyl galactosaminide alpha 2,6 sialyltransferase) , sialyltransferase like 1 , SIAT7, SIAT7B, SIATL1; alpha-N-acetyl galactosaminide alpha-2,6-sialyltransferase 2; ST6GalNAII; STHM; SIAT7-B; ST6GalNAcII; ST6GalNAc II; sialyltransferase 7B; sialyltransferase-like 1; galNAc alpha-2,6-sialyltransferase II; (alpha-N-acetylneuraminy-2,3-beta-galactosyl-1,3)-N-acetyl galactosaminide B; sialyltransferase 7 ((alpha-N-acetylneuraminy-2,3-beta-galactosyl-1,3)-N-acetyl galactosaminide B; (alpha-N-acetylneuraminy-2,3-beta-galactosyl-1,3)-N-acetyl galactosaminide alpha-2,6-sialyltransferase; sialyltransferase 7 ((alpha-N-acetylneuraminy-2,3-beta-galactosyl-1,3)-N-acetyl galactosaminide alpha-2,6-sialyltransferase) B; SIAT7; SAILT1; SIAT7B; SIATL1; FLJ45660;

Gene ID 10610

mRNA Refseq NM_006456

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Protein Refseq	NP_006447
MIM	610137
UniProt ID	Q9UJ37
Chromosome Location	17q25.1
Pathway	Metabolism of proteins, organism-specific biosystem; O-linked glycosylation of mucins, organism-specific biosystem; Post-translational protein modification, organism-specific biosystem; Termination of O-glycan biosynthesis, organism-specific biosystem;
Function	sialyltransferase activity;

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