

ST6GALNAC2 Protein, Human (HEK293, His)

Cat. No.:	HY-P71332
Synonyms:	Alpha-N-Acetylgalactosaminide Alpha-2; 6-Sialyltransferase 2; GalNAc Alpha-2; 6-Sialyltransferase II; ST6GalNAc II; ST6GalNAcII; SThM; Sialyltransferase 7B; SIAT7-B; ST6GALNAC2; SIAT7B; SIATL1; STHM
Species:	Human
Source:	HEK293
Accession:	Q9UJ37 (S29-R374)
Gene ID:	10610
Molecular Weight:	Approximately 44.0 kDa

PROPERTIES

AA Sequence	<p>S A V Q R Y P G P A A G A R D T T S F E A F F Q S K A S N S W T G K G Q A C R H</p> <p>L L H L A I Q R H P H F R G L F N L S I P V L L W G D L F T P A L W D R L S Q H</p> <p>K A P Y G W R G L S H Q V I A S T L S L L N G S E S A K L F A P P R D T P P K C</p> <p>I R C A V V G N G G I L N G S R Q G P N I D A H D Y V F R L N G A V I K G F E R</p> <p>D V G T K T S F Y G F T V N T M K N S L V S Y W N L G F T S V P Q G Q D L Q Y I</p> <p>F I P S D I R D Y V M L R S A I L G V P V P E G L D K G D R P H A Y F G P E A S</p> <p>A S K F K L L H P D F I S Y L T E R F L K S K L I N T H F G D L Y M P S T G A L</p> <p>M L L T A L H T C D Q V S A Y G F I T S N Y W K F S D H Y F E R K M K P L I F Y</p> <p>A N H D L S L E A A L W R D L H K A G I L Q L Y Q R</p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 5 mM EDTA, 5% Trehalosen, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	ST6 N-Acetylgalactosaminide Alpha-2,6-Sialyltransferase 2 (ST6GALNAC2) is an enzyme that catalyzes the transfer of N-acetylneuraminyl groups onto glycan chains in glycoproteins. This sialyltransferase exhibits a preference for glycan
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structures where N-acetylgalactosamine (GalNAc) residues are already modified by the addition of galactose or galactose followed by sialic acid in alpha-2,3 linkage. The enzymatic activity of ST6GALNAC2 contributes to the addition of sialic acid residues to glycoproteins, modulating their functional properties and interactions. Sialylation is a crucial post-translational modification with implications in cell adhesion, immune response, and signaling. Understanding the substrate specificity of ST6GALNAC2 provides insights into its role in the intricate regulation of glycan structures and their impact on diverse cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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