

## ST6GAL1 Protein, Rat (HEK293, His)

Cat. No.:	HY-P76663
Synonyms:	Beta-galactoside alpha-2,6-sialyltransferase 1; ST6Gal I; Sialyltransferase 1; SIAT1
Species:	Rat
Source:	HEK293
Accession:	P13721/NP_001106815.1 (K27-C403)
Gene ID:	25197
Molecular Weight:	Approximately 46 kDa

### PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	ST6GAL1 protein is responsible for facilitating the transfer of sialic acid from CMP-sialic acid to acceptor substrates that contain galactose. Sialic acid is a crucial component of various glycoproteins and glycolipids, and its transfer mediated by ST6GAL1 protein plays a vital role in modulating the structure and function of these molecules. By attaching sialic acid to galactose residues on acceptor substrates, ST6GAL1 protein influences cellular processes such as cell adhesion, signaling, and immune response. This enzymatic activity is essential for the proper functioning of numerous biological systems, and understanding the role of ST6GAL1 protein can have implications in various fields including immunology, cancer research, and glycoengineering.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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