

## Active Recombinant Human ST6GAL1 Protein

Cat. No. ST6GAL1-28H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human Beta-galactoside alpha-2,6-sialyltransferase 1 (ST6Gal I) without tag was expressed in human HEK 293 cells as a glycoprotein with a calculated molecular mass of 43.5 kDa (amino acids 27-406).
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	27-406
<b>Description</b>	This gene encodes a member of glycosyltransferase family 29. The encoded protein is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. The protein, which is normally found in the Golgi but can be proteolytically processed to a soluble form, is involved in the generation of the cell-surface carbohydrate determinants and differentiation antigens HB-6, CD75, and CD76. This gene has been incorrectly referred to as CD75. Alternative splicing results in multiple transcript variants.
<b>Form</b>	Lyophilized powder
<b>Bio-activity</b>	≥300 units/mg protein
<b>Molecular Mass</b>	43.5 kDa
<b>Purity</b>	≥ 95% (The specific activity of ST6Gal I is measured by its ability to transfer sialic acid

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from CMP-NANA to asialofetuin, SDS-PAGE)

**Unit Definition**

One unit is defined as the amount of enzyme required to transfer 1.0 nanomole of sialic acid from CMP-NANA to asialofetuin per minute at pH 6.0, 37 centigrade.

**Storage**

At -20 centigrade.

**Shipping**

Ambient

## GENE INFORMATION

**Gene Name**

ST6GAL1 ST6 beta-galactoside alpha-2,6-sialyltransferase 1 [ Homo sapiens (human) ]

**Official Symbol**

ST6GAL1

**Synonyms**

ST6GAL1; ST6 beta-galactoside alpha-2,6-sialyltransferase 1; ST6N; SIAT1; ST6GalI; beta-galactoside alpha-2,6-sialyltransferase 1; B-cell antigen CD75; CMP-N-acetylneuraminic acid beta-galactosaminide alpha-2,6-sialyltransferase; CMP-N-acetylneuraminic acid-beta-galactosaminide-alpha-2,6-sialyltransferase 1; ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 1; ST6 beta-galactosaminide alpha-2,6-sialyltransferase 1; ST6Gal I; alpha 2,6-ST 1; sialyltransferase 1 (beta-galactoside alpha-2,6-sialyltransferase); EC 2.4.99.1

**Gene ID**

6480

**mRNA Refseq**

NM\_173217

**Protein Refseq**

NP\_775324

**MIM**

109675

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UniProt ID

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