Active Recombinant Human ST6GAL1 Protein

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

SPECIFICATION

Product Overview	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).
Species	Human
Source	HEK293
ProteinLength	27-406
Description	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.
Form	Lyophilized powder
Bio-activity	≥300 units/mg protein
Molecular Mass	43.5 kDa
Purity	≥ 95% (The specific activity of ST6Gal I is measured by its ability to transfer sialic acid

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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-acetylneuraminate beta-galactosamide alpha-2,6-sialyltransferase; CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,6-sialyltransferase 1; ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 1; ST6 beta-galactosamide alpha-2,6-sialyltranferase 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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID	P15907

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA