

Active Recombinant Human ST6GAL1 Protein, His&GFP tagged

Cat. No. ST6GAL1-11H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CMP-N-acetylneuraminate beta-galactosamide-alpha-2,6 sialyltransferase (ST6GAL1) with N-terminal 6×His, GFP tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	75-406 aa
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	Supplied as a 0.2 µm filtered solution in 20mM HEPES and 100mM NaCl buffer, pH 7.0, with 10% Glycerol and 0.05 % NaN ₃ as preservative.
Bio-activity	Specific Activity is ≥0.5 µmol/min/mg. Measured by the ability to transfer the sugar from CMP-Neu5Ac and generate CMP 100mM MES, pH 6.5

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Molecular Mass	~60-70kDa
AASequence	RQTLGSLRGLAKAKPEASFQVWNKDSSSKNLIPRLQKIWKNYLSMNKYKVSYKGPG PGIKFSAEALRCHLRDHNVSVMVEVTDFPFNTSEWEGYLPKESIRTKAGPWGRCAV VSSAGSLKSSQLGREIDDHDAVLRFNAGAPTANFQQDVGTKTTIRLMNSQLVTTEKRF LKDSLYNEGILIVWDPSVYHSDIPKWAYQNPDPYNFFNNYKTYRKLHPNQPFYILKPQM PWELWDILQEISPEEIQPNPPSSGMLGIIMMTLCDQVDIYEFLPSKRKTDVCYYYQKF FDSACTMGAYHPLLYEKNLVKHLNQGTDEDIYLLGKATLPGFRTIHC
Purity	>95%, by SDS_PAGE under reducing conditions and visualized by Coomassie Blue stain.
Storage	6 months if stored at -80 centigrade. Avoid repeated freeze thaws.
Concentration	1 µg/µL
Shipping	This product is shipped as 0.2µm filtered product on dry ice.

GENE INFORMATION

Gene Name	ST6GAL1 ST6 beta-galactosamide alpha-2,6-sialyltransferase 1 [Homo sapiens]
Official Symbol	ST6GAL1
Synonyms	ST6GAL1; ST6 beta-galactosamide alpha-2,6-sialyltransferase 1; sialyltransferase 1 (beta galactoside alpha 2,6 sialyltransferase) , SIAT1; beta-galactoside alpha-2,6-sialyltransferase 1; ST6Gal I; alpha 2,6-ST 1; B-cell antigen CD75; sialyltransferase 1 (beta-galactoside alpha-2,6-sialyltransferase); CMP-N-acetylneuraminate beta-galactosamide alpha-2,6-sialyltransferase; CMP-N-acetylneuraminate-beta-galactosamide-alpha-2,6-sialyltransferase 1; ST6N; SIAT1; ST6GalI; MGC48859;

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Gene ID	6480
mRNA Refseq	NM_173216
Protein Refseq	NP_775323
MIM	109675
UniProt ID	P15907

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