

Recombinant Human ST6GAL1 protein, His-tagged

Cat. No. ST6GAL1-58H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ST6GAL1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	27-406 aa
Description	ST6GAL1, also known as beta-galactoside alpha-2,6-sialyltransferase 1, is a type II membrane protein localized in the trans-Golgi network and catalyzes 2,6-sialylation of Gal beta 1,4-GlcNAc structures on N-glycans. It is highly expressed in the liver and also expressed in most other tissues to some extent. Its deficiency causes abnormalities in B cell immunoreactivity.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	44.6kDa (389aa)40-57kDa (SDS-PAGE under reducing conditions)
AA Sequence	ADPKEKKKGS YYDSFKLQTK EFQVLKSLGK LAMGSDSQSV SSSSTQDPHR GRQTLGSLRG LAKAKPEASF QVWNKDSSSK NLIPRLQKIWKNYLSMNKYK VSYKGPGPGI KFSAEALRCH LRDHVNVMV EVTDFPFNTS EWEGYLPKES IRTKAGPWGR CAVVSSAGSL KSSQLGREIDDHDAVLRFG APTANFQQDV GKTTIRLMN SQLVTTEKRF LKDSLYNEGI LIVWDPSVYH SDIPKWYQNP DYNFFNNYKT YRKLHPNQPFYILKPQMPWE LWDILQEISP EEIQNPSS

 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

GMLGIIIMMT LCDQVDIYEF LPSKRKTDVC YYYQKFFDSA CTMGAYHPLL
YEKNLVKHLNQGTDEDIYLL GKATLPGFRT IHCHHHHHH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity >90% by SDS - PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20Centigrade or -70Centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name [ST6GAL1 ST6 beta-galactosamide alpha-2,6-sialyltransferase 1 \[Homo sapiens \]](#)

Official Symbol [ST6GAL1](#)

Synonyms ST6GAL1; SIAT1; ST6Gal I; alpha 2,6-ST 1; ST6N; SIAT1; ST6Gal

Gene ID [6480](#)

mRNA Refseq [NM_003032](#)

Protein Refseq [NP_003023](#)

MIM [109675](#)

UniProt ID [P15907](#)

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Chromosome Location	3q27-q28
Pathway	Asparagine N-linked glycosylation, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; N-Glycan antennae elongation, organism-specific biosystem; N-Glycan biosynthesis, organism-specific biosystem; N-Glycan biosynthesis, conserved biosystem; N-glycan antennae elongation in the medial/trans-Golgi, organism-specific biosystem;
Function	beta-galactoside alpha-2,6-sialyltransferase activity; sialyltransferase activity;

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