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**Product Data Sheet**


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Product Name: ST6GAL1 Human  
 Cat. No.: GP22261  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms ST6 Beta-Galactosamide Alpha-2;6-Sialyltransferase 1; ST6Gal I; SIAT1; CMP-N-Acetylneuraminate-Beta-Galactosamide-Alpha-2;6-Sialyltransferase 1; B-Cell Antigen CD75; Alpha 2;6-ST 1; EC 2.4.99.1; ST6GalI; CMP-N-Acetylneuraminate Beta-Galactosamide Alpha-2;6-Sialyltransferase; Sialyltransferase 1 (Beta-Galactoside Alpha-2;6-Sialyltransferase); Sialyltransferase 1 (Beta-Galactoside Alpha-2;6-Sialytransferase);Beta-Galactoside Alpha-2;6-Sialyltransferase 1; Sialyltransferase 1; ST6N; ST6GAL1.

Amino Acid Sequence  
 MGSSHHHHH SSGLVPRGSH MGSKEKKKGS YYDSFKLQTK EFQVLKSLGK  
 LAMGSDSQSV SSSSTQDPHR GRQTLGSLRG LAKAKPEASF QVWNKDSSSK  
 NLIPRLQKIW KNYLSMNKYK VSYKGP GPGI KFSAEALRCH LRDHVNVMV  
 EVTDFPFNTS EWEGYLPKES IRTKAGPWGR CAVVSSAGSL KSSQLGREID  
 DHDAVLRFNQ APTANFQQDV GTKTTIRLMN SQLVTTEKRF LKDSLYNEGI  
 LIVWDPSVYH SDIPKWYQNP DYNFFN NYKT YRKLHPNQPF YILKPQMPWE  
 LWDILQEISP EEIQPNPPSS GMLGIIIMMT LCDQVDIYEF LPSKRKTDVC  
 YYYQKFFDSA CTMGAYHPLL YEKNLVKHLN QGTDEDIYLL GKATLPGFRT IHC

Formulation ST6GAL1 protein solution (1mg/ml) containing 20mM Tris-HCl (pH 8.0) and 10% glycerol.

**Introduction**

ST6GAL1 also known as ST6 Beta-Galactosamide Alpha-2,6-Sialyltransferase1, is part of the glycosyltransferase family 29. ST6GAL1 is a type II membrane protein which catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. Furthermore, ST6GAL1 is normally found in the Golgi however it can be proteolytically processed to a soluble form, ST6GAL1 is also involved in the generation of

**Caution: Product has not been fully validated for medical applications. For research use only.**

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the cell-surface carbohydrate determinants as well differentiation antigens HB-6, CD75, and CD76.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

ST6GAL1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 403 amino acids (27-406 a.a) and having a molecular mass of 46kDa. ST6GAL1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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