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**Product Data Sheet**


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Product Name: ST6GAL1 Human, sf9  
 Cat. No.: GP22262  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9,Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms ST6 Beta-Galactoside Alpha-2;6-Sialyltransferase 1; ST6Beta-Galactosamide Alpha-2;6-Sialyltransferase 1; ST6Gal I;CMP-N-Acetylneuraminate-Beta-Galactosamide-Alpha-2;6-Sialyltransferase 1;B-CellAntigen CD75; Alpha 2;6-ST 1; EC 2.4.99.1; ST6Gall; SIAT1;CMP-N-Acetylneuraminate Beta-Galactosamide Alpha-2;6-Sialyltransferase;Sialyltransferase 1 (Beta-Galactoside Alpha-2;6-Sialyltransferase) ; ST6N-Acetylgalactosaminide Alpha-2;6-Sialyltransferase 1; Sialyltransferase 1;ST6N.

Amino Acid Sequence  
 ADPKEKKKGS YYDSFKLQTK EFQVLKSLGK LAMGSDSQSV  
 SSSSTQDPHRGRQTLGSLRG LAKAKPEASF QVWNKDSSSK NLIPRLQKIW  
 KNYLSMNKYK VSYKGP GPGI KFSAEALRCHLRDHVNVSMV EVTDFPFNTS  
 EWEGYLPKES IRTKAGPWGR CAVVSSAGSL KSSQLGREID  
 DHDVAVLRFNGAPTANFQQDV GTKTTIRLMN SQLVTTEKRF LKDSLYNEGI  
 LIVWDPSVYH SDIPKWAYQNP DYNFFNNYKTYRKLHPNQPF YILKPQMPWE  
 LWDILQEISP EEIQPNPPSS GMLGIIIMMT LCDQVDIYEF  
 LPSKRKTDVCYYYQKFFDSA CTMGAYHPLL YEKNLVKHLN QGTDEDIYLL  
 GKATLPGFRT IHCHHHHHH.

Formulation ST6GAL1 protein solution (0.5mg/ml) contains PhosphateBuffered Saline (pH 7.4) and 10% glycerol.

**Introduction**

ST6GAL1 also known as ST6 Beta-Galactosamide Alpha-2,6-Sialyltransferase 1, 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

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

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proteolytically processed to a soluble form, ST6GAL1 is also involved in the generation of 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 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 389 amino acids (27-406 a.a.) and having a molecular mass of 44.6kDa (Migrates at 40-57kDa on SDS-PAGE under reducing conditions).

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