
Product Data Sheet

Product Name: ST6GALNAC5 Human

Cat. No.: GP26181

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 5, GD1 alpha synthase, GalNAc alpha-2,6-sialyltransferase V, ST6GalNAc V, ST6GalNAcV, Sialyltransferase 7E, SIAT7-E, SIAT7E

Amino Acid Sequence
ADLGGQKERP PQQQQQQQQQ QQQASATGSS QPAAESSTQQ RPGVPAGPRP
LDGYLGVADH KPLKMHCRCDC ALVTSSGHLL HSRQGSQIDQ TECVIRMNDA
PTRGYGRDVG NRTSLRVIAH SSIQRILRNR HDLLNVSQGT VFIFWGPSSY
MRRDGKGVVY NNLHLLSQVL PRLKAFMITR HKMLQFDELF KQETGKDRKI
SNTWLSTGWF TMTIALELCD RINVYGMVPP DFCRDPNHPS VPHYHYEPFG
PDECTMYLSH ERGRKGSDDR FITEKRVFKN WARTFNIHFF QPDWKPELSA
INHPENKPVF HHHHHH

Formulation ST6GALNAC5 protein solution (0.25mg/ml) contains 10% glycerol & Phosphate Buffered Saline (pH 7.4).

Introduction

Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 5 or ST6GALNAC5, is part of the glycosyltransferase 29 group of proteins. ST6GALNAC5 is a sialyltransferase that takes part in the synthesis of ganglioside GD1a. This protein is part of the protein glycosylation transduction, meaning, modification of proteins. ST6GALNAC5 is expressed strictly in the brain tissue, and is a crucial component in breast cancer cells metastasis to the brain tissue. It is thought to enable cancer cells to go through the blood-brain barrier.

Stability

Store at 46yC if entire vial will be used within 2-4 weeks. Store, frozen at -206yC for longer periods of time. For long term storage it is recommended to add a carrier protein

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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(0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ST6GALNAC5 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 316 amino acids (30-336a.a.) and having a molecular mass of 36.4kDa. ST6GALNAC5 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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