
Product Data Sheet

Product Name: ST3GAL5 Human
 Cat. No.: GP22260
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ST3 Beta-Galactoside Alpha-2;3-Sialyltransferase 5; SIAT9; Sialyltransferase 9 (CMP-NeuAc:Lactosylceramide Alpha-2;3-Sialyltransferase; GM3 Synthase); Ganglioside GM3 Synthase; ST3GalV; CMP-NeuAc:LactosylceramideAlpha-2;3-Sialyltransferase; ST3Gal V; EC 2.4.99.9; SATI; SIATGM3S; Alpha2;3-Sialyltransferase V; Lactosylceramide Alpha-2;3-Sialyltransferase; Sialyltransferase9; ST3GALV; GM3 Synthase.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSLKLNYYT EECDMKKMHY VDPDHVKRAQ KYAQQVLQKE CRPKFAKTSMLLFEHRYSV DLLPFVQKAP KDSEAESKYD PPFGRKFSS KVQTLLELLP EHDLPHELKA KTCRRCVVIGSGGILHGLEL GHTLNQFDVV IRLNSAPVEG YSEHVGNKTT IRMTYPEGAP LSDLEYYSND LFVAVLFKSV DFNWLQAMVK KETLPFWVRLFFWKQVAEKI PLQPKHFRIL NPVIKETAF DILQYSEPQS RFWGRDKNVP TIGVIAVVLA THLCDEVSLAGFGYDLNQPR TPLHYFDSQC MAAMNFQTMH NVTTETKFL KLVKEGVVKD LSGGIDREF		
Formulation	ST3GAL5 protein solution (1mg/ml) containing In 20mM Tris-HCl buffer (pH 8.0), 10% glyceroland 0.4M Urea.		

Introduction

ST3Beta-Galactoside Alpha-2,3-Sialyltransferase 5, also know as ST3GAL5 belongs to the glycosyltransferase family 29 and localized to the Golgi apparatus. ST3GAL5 is known to play a part in the induction of cell differentiation, modulation of cell proliferation, maintenance of fibroblast morphology, signal transduction, and integrin-mediated cell adhesion. ST3GAL5 is a type II membrane protein which catalyzes the formation of GM3 with lactosylceramide as the substrate. Mutation in this ST3GAL5 has

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

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been connected with Amish infantile epilepsy syndrome. Transcript variants encoding various isoforms have been found for this gene.

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). Please avoid freeze thaw cycles.

Background

ST3GAL5 Human Recombinant produced in E. Coli is a single, non-glycosylated polypeptide chain containing 359 amino acids (83-418a.a) and having a molecular mass of 41kDa. ST3GAL5 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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