

Recombinant Human ST3 beta-galactoside alpha-2,3-sialyltransferase 5, His-tagged

Cat. No. ST3GAL5-335H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ST3GAL5, 83-418aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	83-418 a.a.
Description	Ganglioside GM3 is known to participate in the induction of cell differentiation, modulation of cell proliferation, maintenance of fibroblast morphology, signal transduction, and integrin-mediated cell adhesion. The protein encoded by this gene is a type II membrane protein which catalyzes the formation of GM3 using lactosylceramide as the substrate. The encoded protein is a member of glycosyltransferase family 29 and may be localized to the Golgi apparatus. Mutation in this gene has been associated with Amish infantile epilepsy syndrome. Transcript variants encoding different isoforms have been found for this gene. Recombinant human ST3GAL5 protein, fused to His-tag at N-terminus, was expressed in E.coli .
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea
Molecular Mass	41.0 kDa (359aa)
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSLKLNYYT EECMDKMKMHY VDPDHVKRAQ KYAQQVLQKE CRPKFAKTSM ALLFEHRYSV DLLPFVQKAP KDSEAESKYD

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PPFGFRKFSS KVQTLLELLP EHDLP EHLKA KTCRRCVVIG SGGILHGLEL
 GHTLNQFDVV IRLNSAPVEG YSEHVGNKTT IRMYPEGAP LSDLEYYSND
 LFVAVLFKSV DFNWLQAMVK KETLPFWVRL FFWKQVAEKI PLQPKHFRIL
 NPVIIKETAF DILQYSEPQS RFWGRDKNVP TIGVIAVLA THLCDEVSLA
 GFGYDLNQPR TPLHYFDSQC MAAMNFQTMH NVTTETKFL KLVKEGVVKD
 LSGGIDREF

Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	ST3GAL5 ST3 beta-galactoside alpha-2,3-sialyltransferase 5 [Homo sapiens]
Official Symbol	ST3GAL5
Synonyms	ST3GAL5; ST3 beta-galactoside alpha-2,3-sialyltransferase 5; sialyltransferase 9 (CMP NeuAc:lactosylceramide alpha 2,3 sialyltransferase; GM3 synthase) , SIAT9; lactosylceramide alpha-2,3-sialyltransferase; SIATGM3S; ST3GalV; ST3Gal V; GM3 synthase; ganglioside GM3 synthase; alpha 2,3-sialyltransferase V; CMP-NeuAc:lactosylceramide alpha-2,3-sialyltransferase; sialyltransferase 9 (CMP-NeuAc:lactosylceramide alpha-2,3-sialyltransferase; GM3 synthase); SAT1; SIAT9;
Gene ID	8869
mRNA Refseq	NM_001042437

Protein Refseq	NP_001035902
MIM	604402
UniProt ID	Q9UNP4
Chromosome Location	2p11.2
Pathway	Ganglio Sphingolipid Metabolism, organism-specific biosystem; Glycosphingolipid biosynthesis - ganglio series, organism-specific biosystem; Glycosphingolipid biosynthesis - ganglio series, conserved biosystem; Glycosphingolipid biosynthesis, ganglio series, LacCer =>GT3, organism-specific biosystem; Glycosphingolipid biosynthesis, ganglio series, LacCer => GT3, conserved biosystem;
Function	lactosylceramide alpha-2,3-sialyltransferase activity; neolactotetraosylceramide alpha-2,3-sialyltransferase activity; sialyltransferase activity;

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