

AR51238PU-S

Human ST3GAL5 (83-418, His-tag) - Purified

Alternate names:

3-sialyltransferase, 3-sialyltransferase, CMP-NeuAc:lactosylceramide alpha-2, Ganglioside GM3 synthase, Lactosylceramide alpha-2, SIAT9, ST3Gal V, ST3GalV, Sialyltransferase 9

Quantity:

0.1 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q9UNP4](#)

NCBI:

[NP_003887](#)

GeneID:

[8869](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >85% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea

Description:

Recombinant human ST3GAL5 protein, fused to His-tag at N-terminus, was expressed in E.coli .

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSCLKNYTT EECMDKKMHY VDPDHVKRAQ KYAQQVLQKE
CRPKFAKTSM ALLFEHRYSV DLLPFVQKAP KDSEAESKYD PPFGFRKFSS KVQTLLELLP
EHDLPHELKA KTCRRCVVIG SGGILHGLEL GHTLNQFDVV IRLNSAPVEG YSEHVGNKTT
IRMTYPEGAP LSDLEYYSND LFVAVLFKSV DFNWLQAMVK KETLPFWVRL FFWKQVAEKI
PLQPKHFRIL NPVVIKETAF DILQYSEPPS RFWGRDKNVP TIGVIAVLA THLCDEVSLA
GFGYDLNQPR TPLHYFDSQC MAAMNFQTMH NVTETKFLK KLVKEGVVKD LSGGIDREF

Molecular weight: 41.0 kDa (359aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Berselli P., Zava S.. et al. (2006). Biochim. Biophys. Acta 1759:348-358

Pictures:

