

ST3GAL5, 83-418aa, Human, His tag, E.coli

Cat.NO.: TP04044

3th Edition

Synonyms:Lactosylceramide alpha-2,3-sialyltransferase isoform 1, ST3 beta-galactoside alpha-2,3-sialyltransferase 5, SATI; SIAT9; SIATGM3S; ST3GalV

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 Weight:41.0 kDa (359aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSLKLNYYTTEECMDKMKMHYVDPDHVKRAQKYAQQVLQKECRPKFAKTS
SMALL FEHRYSDLLPFVQKAPKDSEAESKYDPPFGFRKFSSKVQTLLELLPEHDLPEHLKAKTCRRCV
VIGSGGILHGLEL GHTLNQFDVVIRLNSAPVEGYSEHVGNKTTIRMTYPEGAPLS
DLEYYSNDFVAVLFKSVDNFNWLQAMVKKETLPF WVRLFFWKQVAEKIPLQPKHFRILNP
VVIKETAFDILQYSEPPSRFWGRDKNVPTIGVIAVVLATHLCDEVSLAGFGY DLNQPRTPLHYFDSQC
MAAMNFQTMHNVTETKFLKLVKEGVVKDLSGGIDREF

Purity:> 95% by HPLC

Concentration:1mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.