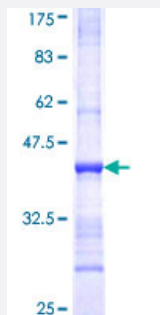


ST3GAL5 (Human) Recombinant Protein (Q01)

Catalog # H00008869-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ST3GAL5 partial ORF (NP_003887, 31 a.a. - 117 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	YTTEECDMKKMHYVDPDHVKRAQKYAQQVLQKECRPKFAKTSMLLFEHRYSDLLPFVQKAP KDSEAESKYDPPFGFRKFSSKVQT
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.31
Interspecies Antigen Sequence	Mouse (86); Rat (83)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ST3GAL5

Entrez GeneID [8869](#)

GeneBank Accession# [NM_003896](#)

Protein Accession# [NP_003887](#)

Gene Name ST3GAL5

Gene Alias SIAT9, SIATGM3S, ST3GalV

Gene Description ST3 beta-galactoside alpha-2,3-sialyltransferase 5

Omim ID [604402](#) [609056](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations CMP-NeuAc:lactosylceramide alpha-2,3-sialyltransferase|GM3 synthase|OTTHUMP00000160673|alpha 2,3-sialyltransferase V|lactosylceramide alpha-2,3-sialyltransferase|sialyltransferase 9 (CMP-NeuAc:lactosylceramide alpha-2,3-sialyltransferase; GM3 synthase)

Pathway

- [Glycosphingolipid biosynthesis - ganglio series](#)

- [Metabolic pathways](#)

Disease

- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Ovarian Neoplasms](#)