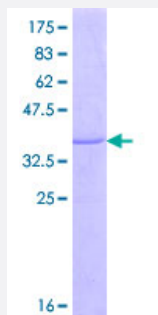


ST8SIA1 (Human) Recombinant Protein (Q01)

Catalog # H00006489-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ST8SIA1 partial ORF (NP_003025, 61 a.a. - 160 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	VLQQGTAWRRNQTAARAFRKQMEDCCDPAHLFAMTKMNSPMGKSMWYDGEFLYSFTIDNSTYS LFPQATPFQLPLKKCAVVGNGGILKKSGCGRQIDEAN
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (90); Rat (91)
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 — ST8SIA1

Entrez GeneID [6489](#)

GeneBank Accession# [NM_003034](#)

Protein Accession# [NP_003025](#)

Gene Name ST8SIA1

Gene Alias GD3S, SIAT8, SIAT8A, ST8Sial

Gene Description ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1

Omim ID [601123](#)

Gene Ontology [Hyperlink](#)

Gene Summary Gangliosides are membrane-bound glycosphingolipids containing sialic acid. Ganglioside GD3 is known to be important for cell adhesion and growth of cultured malignant cells. The protein encoded by this gene is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to GM3 to produce gangliosides GD3 and GT3. The encoded protein may be found in the Golgi apparatus and is a member of glycosyltransferase family 29. [provided by RefSeq]

Other Designations disialoganglioside (GD3) synthase|ganglioside GD3 synthase|ganglioside GT3 synthase|ganglioside-specific alpha-2,8-polysialyltransferase|sialyltransferase 8 (alpha-N-acetylneuraminate: alpha-2,8-sialyltransferase, GD3 synthase) A|sialyltransferase 8A (alph

Pathway

- [Glycosphingolipid biosynthesis - ganglio series](#)
- [Glycosphingolipid biosynthesis - globo series](#)

- [Glycosphingolipid biosynthesis - lacto and neolacto series](#)
- [Metabolic pathways](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Multiple Sclerosis](#)
- [Tobacco Use Disorder](#)