Recombinant Human ST8SIA1

Cat. No. ST8SIA1-30852TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human ST8SIA1 with N terminal proprietary tag; Predicted MW 36.63 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	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.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Strongly expressed in melanoma cell lines, adult and fetal brain and to a lesser extent in adult and fetal lung.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	VLQQGTAWRRNQTAARAFRKQMEDCCDPAHLFAMTKMNSPMGKSMWYDGEFLY SFTIDNSTYSLFPQATPFQLPLKKCAVVGNGGILKKSGCGRQIDEAN
Sequence Similarities	Belongs to the glycosyltransferase 29 family.

GENE INFORMATION

Gene Name	ST8SIA1 ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 [Homo sapiens]
Official Symbol	ST8SIA1
Synonyms	ST8SIA1; ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1; sialyltransferase 8 (alpha N acetylneuraminate: alpha 2,8 sialytransferase, GD3 synthase) A , SIAT8, SIAT8A; alpha-N-acetylneuraminide alpha-2,8-sialyltransferase; ST8Sia I;
Gene ID	6489
mRNA Refseq	NM_003034
Protein Refseq	NP_003025
MIM	601123

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Uniprot ID	Q92185
Chromosome Location	12p12.1-p11.2
Pathway	Ganglio Sphingolipid Metabolism, organism-specific biosystem; Glycosphingolipid biosynthesis - ganglio series, organism-specific biosystem; Glycosphingolipid biosynthesis - ganglio series, conserved biosystem; Glycosphingolipid biosynthesis - globo series, organism-specific biosystem; Glycosphingolipid biosynthesis - globo series, conserved biosystem;
Function	alpha-N-acetylneuraminate alpha-2,8-sialyltransferase activity; sialyltransferase activity; transferase activity, transferring glycosyl groups;

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