

## Product Information

### MemDX™ Membrane Protein Human ST8SIA1 (ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1) Full Length

Cat. No.: **MPC4014K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human ST8SIA1 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

#### Product Specifications

##### Host Species

Human

##### Target Protein

ST8SIA1

##### Protein Length

Full length

##### Protein Class

Transferase

##### TMD

1

##### Sequence

MSPCGRARRQTSRGAMAVLAWKFPRTLPMGASALCVVLCWLYIFPVYR  
LPNEKEIVQGVLLQGGTAWRRNQTAARAFRKQMEDCCDPAHLFAMTKMNSP  
MGKSMWYDGEFLYSFTIDNSTYSLFPQATPFQLPLKKCAVVGNGGILKKS  
GCGRQIDEANFVMRCNLPPLSSEYTKDVGSKSQLVTANPSIIRQRFQNL  
WSRKTFFVDNMKIYNHSYIYMPAFSMKTGTEPSLRVYYTLSDVGANQTVLF  
ANPNFLRSIGKFWKSRGIHAKRLSTGLFLVSAALGLCEEVAIYGFWPFSV  
NMHEQPISHHYYDNVLPFSGFHAMPEEFLQLWYLHKIGALRMQLDPCEDT  
SLQPTS

#### Product Description

##### Expression Systems

HEK293

##### Tag

Based on specific requirements

##### Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

## Form

Liquid

## Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

## Target

### Target Protein

ST8SIA1

### Full Name

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

### Introduction

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. Alternatively spliced transcript variants have been found for this gene.

### Alternative Names

ST8SIA1; GD3S; SIAT8; SIAT8A; SIAT8-A; ST8Sial; alpha-N-acetylneuraminide alpha-2,8-sialyltransferase; ST8 alpha-N-acetylneuraminate alpha-2,8-sialyltransferase 1; alpha-2,8-sialyltransferase 8A; 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 (alpha-N-acetylneuraminate: alpha-2,8-sialyltransferase, GD3 synthase); sialyltransferase St8Sia I; sialyltransferase St8Sia I; ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1

### Gene ID

[6489](#)

### UniProt ID

[Q92185](#)