



# Recombinant Protein Technical Manual

## Recombinant Human ST8SIA1 Protein (His Tag)

RPES3245

### Product Data:

**Product SKU:** RPES3245

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q92185

### Protein Information:

**Molecular Mass:** 36.2 kDa

**AP Molecular Mass:** 48 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH8.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Alpha-N-Acetylneuraminide Alpha-2;8-Sialyltransferase; Alpha-2;8-Sialyltransferase 8A; Ganglioside GD3 Synthase; Ganglioside GT3 Synthase; Sialyltransferase 8A; SIAT8-A; Sialyltransferase St8Sia I; ST8Sial; ST8SIA1; SIAT8; SIAT8A

## Immunogen Information:

**Sequence:** Tyr49-Ser356

## Background:

$\alpha$ -N-Acetylneuraminide  $\alpha$ -2,8-Sialyltransferase (ST8SIA1) belongs to the glycosyltransferase 29 family. ST8SIA1 is a sialyltransferase that catalyzes the transfer of sialic acid from CMP-sialic acid to GM3 to produce GD3 and GT3. ST8SIA1 is highly expressed in melanoma cell lines, adult and fetal brain, low expressed in adult and fetal lung. ST8SIA1 may act as a type II transmembrane protein with a short N-terminal cytoplasmic domain and a single-pass transmembrane domain followed by an enzymatic domain in the lumen of the Golgi apparatus.