



Recombinant Protein Technical Manual

Recombinant Human ST6GAL1 Protein (His Tag)

RPES2736

Product Data:

Product SKU: RPES2736

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P15907

Protein Information:

Molecular Mass: 44.6 kDa

AP Molecular Mass: 41-48 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, pH 8.0.

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

Application:

Synonyms: Beta-Galactoside Alpha-2;6-Sialyltransferase 1; Alpha 2;6-ST 1; B-Cell Antigen CD75; CMP-N-Acetylneuraminate-Beta-Galactosamide-Alpha-2;6-Sialyltransferase 1; ST6Gal I; ST6GalII; Sialyltransferase 1; ST6GAL1; SIAT1

Immunogen Information:

Sequence: Lys27-Cys406

Background:

The ST6GAL1 gene encodes β -Galactosamide α -2,6-Sialyltransferase 1. It is a type II membrane protein and is localized to the trans-Golgi network. It catalyzes 2,6-sialylation of Gal β 1,4-GlcNAc structures on N-glycans. ST6GAL1 is highly expressed in the liver and other tissues. ST6GAL1 deficiency causes abnormalities in B-cell immunoreactivity. The expression and activity of ST6GAL1 are associated with tumor metastasis in breast and colon cancers. The majority of ST6GAL1 in the liver is cleaved and secreted into the serum and may be used as a biomarker for hepatitis diseases.