



Recombinant Protein Technical Manual

Recombinant Human POMGNT1 Protein (His Tag)

RPES2377

Product Data:

Product SKU: RPES2377

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q8WZA1

Protein Information:

Molecular Mass: 69.3 kDa

AP Molecular Mass: 74 kDa

Tag: C-6His

Bio-activity:

Purity: > 90 % 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, 10% Glycerol, pH 8.5.

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

Application:

Synonyms: Protein O-Linked-Mannose Beta;2-N-Acetylglucosaminyltransferase 1; POMGnT1; UDP-GlcNAc:Alpha-D-Mannoside Beta;2-N-Acetylglucosaminyltransferase I.2;POMGNT1; MGAT1.2

Immunogen Information:

Sequence: Leu59-Thr660

Background:

Protein O-Linked-Mannose β 2-N-Acetylglucosaminyltransferase 1 (POMGNT1) belongs to the Glycosyltransferase 13 family. Amino acid residues between 299-311 are important for both protein expression and enzymatic activity. The minimal catalytic domain is located between positions 299-651. It is suggested that the stem domain of the soluble form is unnecessary for activity, but that some amino acids play a crucial role in the membrane-bound form. Defects in POMGNT1 are the cause of muscular dystrophy-dystroglycanopathy congenital with brain and eye anomalies type A3 (MDDGA3).