



# Recombinant Protein Technical Manual

## Recombinant Human MGAT2/GlcNAc-TII Protein (His Tag) RPES4280

### Product Data:

**Product SKU:** RPES4280

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q10469

### Protein Information:

**Molecular Mass:** 49.3 kDa

**AP Molecular Mass:** 50 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;6-Mannosyl-Glycoprotein 2-Beta-N-Acetylglucosaminyltransferase; Beta;2-N-acetylglucosaminyltransferase II; GlcNAc-T II; NT-II; Mannoside Acetylglucosaminyltransferase 2; N-Glycosyl-Oligosaccharide-Glycoprotein N-Acetylglucosaminyltransferase II; MGAT2

## Immunogen Information:

**Sequence:** Arg30-Gln447

## Background:

Mannoside Acetylglucosaminyltransferase 2 (MGAT2) is a single-pass type II membrane protein that contains the typical glycosyltransferase domains: a short N-terminal cytoplasmic domain, a hydrophobic non-cleavable signal-anchor domain and a C-terminal catalytic domain. MGAT2 catalyzes an essential step in the conversion of oligo-mannose to complex N-glycans. Defects in MGAT2 are the cause of congenital disorder of glycosylation type 2A.