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## Recombinant human MGAT2 protein

Catalog Number: ATGP3770

#### PRODUCT INFORMATION

## **Expression system**

Baculovirus

#### **Domain**

30-447aa

#### UniProt No.

010469

## **NCBI Accession No.**

NP 002399

#### **Alternative Names**

Alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase, Mannosyl alpha-1,6-glycoprotein beta-1,2-N-acetylglucosaminyltransferas, GlcNAc-T II, GNT-II, Mannoside acetylglucosaminyltransferase 2, N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase II, CDG2A, CDGS2

## PRODUCT SPECIFICATION

### **Molecular Weight**

49.3 kDa (427aa)

#### Concentration

0.25mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 10% glycerol, 0.15M NaCl, 1mM DTT

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

His-Tag

## **Application**

SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

#### **Description**

MGAT2, also known as alpha-1, 6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase, is a single-pass type 2 membrane protein. It has the typical glycosyltransferase domains that composes a short N-terminal



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cytoplasmic domain, a hydrophobic non-cleavable signal-anchor domain, and a C-terminal catalytic domain. This protein catalyzes an essential step in the conversion of oligo-mannose to complex N-glycans. Sometimes mutations in this gene may lead to carbohydrate-deficient glycoprotein syndrome, type II. Recombinant human MGAT2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### **Amino acid Sequence**

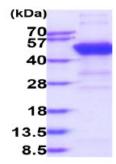
ADPRQRKNEA LAPPLLDAEP ARGAGGRGGD HPSVAVGIRR VSNVSAASLV PAVPQPEADN LTLRYRSLVY QLNFDQTLRN VDKAGTWAPR ELVLVVQVHN RPEYLRLLLD SLRKAQGIDN VLVIFSHDFW STEINQLIAG VNFCPVLQVF FPFSIQLYPN EFPGSDPRDC PRDLPKNAAL KLGCINAEYP DSFGHYREAK FSQTKHHWWW KLHFVWERVK ILRDYAGLIL FLEEDHYLAP DFYHVFKKMW KLKQQECPEC DVLSLGTYSA SRSFYGMADK VDVKTWKSTE HNMGLALTRN AYQKLIECTD TFCTYDDYNW DWTLQYLTVS CLPKFWKVLV PQIPRIFHAG DCGMHHKKTC RPSTQSAQIE SLLNNNKQYM FPETLTISEK FTVVAISPPR KNGGWGDIRD HELCKSYRRL QHHHHHH

### **General References**

Tan J., et al, (1996) Am. J. Hum. Genet. 59:810-817. Maszczak-Seneczko D., et al, (2015) J. Biol. Chem. 290:15475-15486.

#### **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

