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## Recombinant human MGAT2 protein

Catalog Number: ATGP2614

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **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**

50 kDa (439aa)

#### Concentration

1mg/ml (determined by Bradford assay)

### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

## **Purity**

> 85% by SDS-PAGE

## Tag

His-Tag

## **Application**

SDS-PAGE, Denatured

## **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 is a golgi enzyme catalyzing an essential step in the conversion of oligomannose to complex N-glycans. The enzyme has the typical glycosyltransferase domains: a short N-terminal cytoplasmic domain, a hydrophobic non-cleavable signal-anchor domain, and a C-terminal catalytic domain. Mutations in this gene may lead to carbohydrate-deficient glycoprotein syndrome, type II. Transcript variants with a spliced 5' uTR may exist, but



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their biological validity has not been determined. Recombinant human MGAT2 protein, fused to His-tag at N-terminus, was expressed in E. coli.

### **Amino acid Sequence**

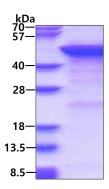
<MGSSHHHHHH SSGLVPRGSH> MRQRKNEALA PPLLDAEPAR GAGGRGGDHP SVAVGIRRVS NVSAASLVPA VPQPEADNLT LRYRSLVYQL NFDQTLRNVD KAGTWAPREL VLVVQVHNRP EYLRLLLDSL RKAQGIDNVL VIFSHDFWST EINQLIAGVN FCPVLQVFFP FSIQLYPNEF PGSDPRDCPR DLPKNAALKL GCINAEYPDS FGHYREAKFS QTKHHWWWKL HFVWERVKIL RDYAGLILFL EEDHYLAPDF YHVFKKMWKL KQQECPECDV LSLGTYSASR SFYGMADKVD VKTWKSTEHN MGLALTRNAY QKLIECTDTF CTYDDYNWDW TLQYLTVSCL PKFWKVLVPQ IPRIFHAGDC GMHHKKTCRP STQSAQIESL LNNNKQYMFP ETLTISEKFT VVAISPPRKN GGWGDIRDHE LCKSYRRLQ

#### **General References**

Tan J, Dunn J, et al. (1996). Am J Hum Genet. 59(4):810-7.

#### **DATA**

#### **SDS-PAGE**



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

