

Recombinant human MGAT2 protein

Catalog Number: ATGP3770

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

30-447aa

UniProt No.

Q10469

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-acetylglucosaminyltransferase, 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 LAPPLLD AEP ARGAGGRGGD HPSVAVGIRR VSNVSAASLV PAVPQPEADN LTLRYRSLVY QLNFDQTLRN
VDKAGTWAPR ELVLVVQVHN RPEYLRLLLD SLRKAQGIDN VLVIFSHDFW STEINQLIAG VNFCPVLQVF FPFSIQLYPN
EFPGSDPRDC PRDLPKNAAL KLG CINA EYP DSFGHYREAK FSQTKHHWWW KLHFVWERVK ILRDYAGLIL FLEEDHYLAP
DFYHVFKKMW KLKQCEPEC DVLSLGTYS SRSFYGMADK VDVKTWKSTE HNMGLALTRN AYQKLI ECTD TFCTYDDYNW
DWTLQYLTVS CLPKFWKVLV PQIPRIFHAG DCGMHKKTC RPSTQSAQIE SLLNNNKQYM FPETLTISEK FTVVAISPPR
KNGGWGDIRD HELCKSYRRL QHHHHHH

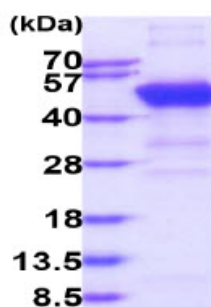
General References

Tan J., et al, (1996) Am. J. Hum. Genet. 59:810-817.

Maszczyk-Seneczko D., et al, (2015) J. Biol. Chem. 290:15475-15486.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)