

Recombinant human MGAT2 protein

Catalog Number: ATGP2614

PRODUCT INFORMATION

Expression system

E.coli

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

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

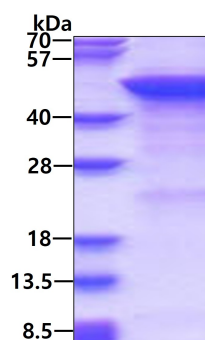
<MGSSHHHHH SSGLVPRGSH> MRQRKNEALA PPLDAEPAR GAGGRGGDHP SVAVGIRRVS NVSAASLVPA
VPQPEADNLT LRYRSLVYQL NFDQTLRNVD KAGTWAPREL VLVVQVHNRP EYLRLLLDL RKAQGIDNVL VIFSHDFWST
EINQLIAGVN FCPVLQVFFP FSIQLYPNEF PGSDPRDCPR DLPKNAALKL GCINAEYPDS FGHYREAKFS QTKHHWWWKL
HFVWERVKIL RDYAGLILFL EEDHYLAPDF YHVFKKMWKL KQECPECDV LSLGTYSASR SFYGMADKVD VKTWKSTEHN
MGLALTRNAY QKLIECTDTF CTYDDYNWDW TLQYLTVSCL PKFWKVLVPQ IPRIFHAGDC GMHHKTCRP 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.