Recombinant Human mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase, His-tagged

Cat. No. MGAT2-517H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MGAT2, 30-447aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	30-447 a.a.
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 their biological validity has not been determined. Recombinant human MGAT2 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	50 kDa (439aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MRQRKNEALA PPLLDAEPAR GAGGRGGDHP SVAVGIRRVS NVSAASLVPA VPQPEADNLT LRYRSLVYQL NFDQTLRNVD KAGTWAPREL VLVVQVHNRP EYLRLLLDSL RKAQGIDNVL VIFSHDFWST

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	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
Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1.0 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	MGAT2?mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase [?Homo sapiens?(human)]
Official Symbol	MGAT2
Synonyms	MGAT2; GNT2; CDG2A; CDGS2; GNT-II; GLCNACTII; mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase; alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase; glcNAc-T II; mannoside acetylglucosaminyltransferase 2; Beta-1,2-N-acetylglucosaminyltransferase II; N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase II; UDP-N-acetylglucosamine:alpha-6-D-mannoside beta-1,2-N-acetylglucosaminyltransferase II; NP_002399.1; EC 2.4.1.143
Gene ID	4247

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mRNA Refseq	NM_002408
Protein Refseq	NP_002399
MIM	602616
UniProt ID	Q10469
Chromosome Location	14q21
Pathway	Asparagine N-linked glycosylation; N-Glycan biosynthesis; Reactions specific to the complex N-glycan synthesis pathway
Function	alpha-1,6-mannosylglycoprotein 2-beta-N-acetylglucosaminyltransferase activity; carbohydrate binding

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