

Recombinant Human MGAT2, His-tagged

Cat. No. MGAT2-5118H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human MGAT2 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	50 kDa (439aa)
AA Sequence	<p>MGSSHHHHHH SSGLVPRGSH MRQRKNEALA PLLDAEPAR GAGGRGGDHP SVAVGIRRVSV NVSAASLVPA VPQPEADNLT LRYRSLVYQL NFDQTLRNVD KAGTWAPREL VLVVQVHNRPEYLRLLLLDSL RKAQGIDNVL VIFSHDFWST EINQLIAGVN FCPVLQVFFP FSIQLYPNEF PGSDPRDCPR DLPKNAALKL GCINAEYPDS FGHYREAKFS QTKHHWWWKL HFVWERVKIL RDYAGLILFL EEDHYLAPDF YHVFKKMWKL KQCEPCEDV LSLGTYSASR SFYGMADKVD VKTWKSTEHN MGLALTRNAY QKLIECTDTF CTYDDYNWDW TLQYLTV SCL</p>

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PKFWKVLVPQ IPRIFHAGDC GMHHKTCRP STQSAQIESL LNNNKQYMFP
 ETLTISEKFT VVAISPPRKN GGWGDIRDHE LCKSYRRLQ

Purity >85% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. 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;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-

Gene ID [4247](#)

mRNA Refseq [NM_002408.3](#)

Protein Refseq [NP_002399.1](#)

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MIM	602616
UniProt ID	Q10469
Chromosome Location	14q21
Pathway	Asparagine N-linked glycosylation;Metabolism of proteins;N-Glycan biosynthesis;N-glycan antennae elongation in the medial/trans-Golgi;N-glycan biosynthesis, complex type
Function	alpha-1,6-mannosylglycoprotein 2-beta-N-acetylglucosaminyltransferase activity;carbohydrate binding

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