

Active Recombinant Human MGAT2 Protein (AA 30-447), N-6×His/GFP tagged

Cat. No. MGAT2-08H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MGAT2 Protein (AA 30-447) with N-6×His/GFP tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	AA 30-447
Description	The product of this gene 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. The coding region of this gene is intronless. Transcript variants with a spliced 5' UTR may exist, but their biological validity has not been determined.
Bio-activity	≥0.6 μmol/min/mg
Molecular Mass	~70 kDa
AA Sequence	RQRKNEALAPLLDAEPARGAGGRGGDHPSVAVGIRRVSNVSAASLVPVPQPEA DNLTLRYRSLVYQLNFDQTLRNVDKAGTWAPRELVLVVQVHNRPEYLRLLDLSLRK AQGIDNVLVIFSHDFWSTEINQLIAGVNFPCVLQVFFPFSIQLYPNEFPGSDPRDCPR

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DLPKNAALKLGCINAEYPDSFGHYREAKFSQTKHHWWWKLHFVWERVKILRDYAGL
ILFLEEDHYLAPDFYHVFKKMWKLKQQECPECDVLSLGTYSASRSFYGMADKVDVK
TWKSTEHNMGALALTRNAYQKLIECTDTFCTYDDYNWDWTLQYLTVSCLPKFWKVLV
PQIPRIFHAGDCGMHHKKTCPSTQSAQIESLLNNNKQYMFPETLTISEKFTVVAISP
PRKNGGWGDIRDHELCKSYRRLQ

Purity	>95%, by SDS-PAGE as visualized by Coomassie Blue Staining
Stability	>6 months from date of receipt at -20 to -70 centigrade as supplied. 1 month at 4 centigrade under sterile conditions after opening
Concentration	1 µg/µL
Storage Buffer	Supplied as a 0.2 µm filtered solution in 20mM HEPES and 100mM NaCl buffer, pH 7.0, with 10% Glycerol.
Preservative	0.05 % NaN ₃
Shipping	This product is shipped as 0.2µm filtered product on dry ice.

GENE INFORMATION

Gene Name	MGAT2 alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase [Homo sapiens (human)]
Official Symbol	MGAT2
Synonyms	MGAT2; alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase; GNT2; CDG2A; CDGS2; GNT-II; GLCNACTII; alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase; Beta-1,2-N-acetylglucosaminyltransferase II; N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase II; UDP-N-

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acetylglucosamine:alpha-6-D-mannoside beta-1,2-N-acetylglucosaminyltransferase II;
glcNAc-T II; mannoside acetylglucosaminyltransferase 2; mannosyl (alpha-1,6-)-
glycoprotein beta-1,2-N-acetylglucosaminyltransferase; EC 2.4.1.143

Gene ID [4247](#)

mRNA Refseq [NM_002408](#)

Protein Refseq [NP_002399](#)

MIM [602616](#)

UniProt ID [Q10469](#)

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