

Recombinant Human MGAT1

Cat. No. MGAT1-29206TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human MGAT1 with an N terminal proprietary tag; Predicted MWt 36.41 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	98 amino acids
Description	There are believed to be over 100 different glycosyltransferases involved in the synthesis of protein-bound and lipid-bound oligosaccharides. UDP-N-acetylglucosamine:alpha-3-D-mannoside beta-1,2-N-acetylglucosaminyltransferase I is a medial-Golgi enzyme essential for the synthesis of hybrid and complex N-glycans. The protein, encoded by a single exon, shows typical features of a type II transmembrane protein. The protein is believed to be essential for normal embryogenesis. Several variants encoding the same protein have been found for this gene.
Molecular Weight	36.410kDa inclusive of tags
Tissue specificity	Appears to be present in all tissues.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	YLQREAYDRDFLARVYGAPQLQVEKVRTNDRKELGEVRVQYTGRDSFKAKAFKALG VMDDLKSGVPRAGYRGIVTFQFRGRRVHLAPPPTWEGYDPSWN
Sequence Similarities	Belongs to the glycosyltransferase 13 family.

GENE INFORMATION

Gene Name	MGAT1 mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase [Homo sapiens]
Official Symbol	MGAT1
Synonyms	MGAT1; mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase; GLYT1, MGAT; alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase; GLCNAC TI; GNT 1;
Gene ID	4245
mRNA Refseq	NM_001114617
Protein Refseq	NP_001108089
MIM	160995
Uniprot ID	P26572

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Chromosome Location	5
Pathway	Asparagine N-linked glycosylation, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; N-Glycan biosynthesis, organism-specific biosystem; N-Glycan biosynthesis, conserved biosystem;
Function	acetylglucosaminyltransferase activity; alpha-1,3-mannosylglycoprotein 2-beta-N-acetylglucosaminyltransferase activity; metal ion binding; transferase activity, transferring glycosyl groups;

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