

Recombinant Full Length Human MGAT1 Protein, GST-tagged

Cat. No. MGAT1-6205HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human MGAT1 full-length ORF (NP_002397.1, 1 a.a. - 445 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
Protein Length	445 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. [provided by RefSeq]
Molecular Mass	77.3 kDa
AA Sequence	MLKKQSAGLVWLGAILFVAWNALLLFFWTRPAPGRPPSVSALDGD PASLTREVIRL AQDAEVELERQRGLLQQIGDALSSQRGRVPTAAPPAQPRVPVTPAPAVIPILVIACDR STVRRCLDKLLHYRPSAELFPIIVSQDCGHEETAQAIASYGS AVTHIRQPD LSSI AVPP DHRKFQGYKYIARHYRWALGQVFRQFRFPAAVVVEDDLEVAPDFFEYFRATYPLLK ADPSLWCVSAWNDNGKEQMVDASRPELLYRTDFFPGLGWLLLAELWAELEPKWPK AFWDDWMRPEQRQGRACIRPEISRTMTFGRKGVSHGQFFDQHLKFIKLNQQFVH

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

FTQLDLSYLQREAYDRDFLARVYGAPQLQVEKVRTNDRKELGEVVRVQYTGRDSFKA
FAKALGVMDLKGSGVPRAGYRGIVTFQFRGRRVHLAPPPTWEGYDPSWN

Applications	<p>Enzyme-linked Immunoabsorbent Assay</p> <p>Western Blot (Recombinant protein)</p> <p>Antibody Production</p> <p>Protein Array</p>
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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; glcNAc-T I; N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase I; MGAT; GLCT1; GLYT1; GNT-1; GNT-I; GLCNAC-TI;
Gene ID	4245
mRNA Refseq	NM_001114617

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Protein Refseq	NP_001108089
MIM	160995
UniProt ID	P26572

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