

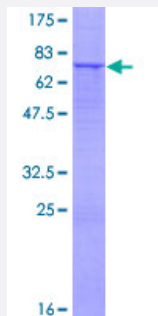
Full-Length

MGAT1 (Human) Recombinant Protein (P01)

Catalog # H00004245-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human MGAT1 full-length ORF (NP_002397.1, 1 a.a. - 445 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MLKKQSAGLVWLGAILFVAWNALLLFFWTRPAPGRPPSVSALDGDPA SLTREVIRLAQDAEVEL
ERQRGLLQQIGDALSSQRGRVPTAAPPAQPRVPVTPAPAVIPILVIACDRSTVRRCLDKLLHYRPS
AELFPIIVSQDCGHEETAQAIA SYGS AVTHIRQPD LSSIAVPPDHRKFQGYK IARHYRWALGQVFR
QFRFPAAVVVEDDLEVAPDFFEYFRATYPLLKADPSLWCVSAWNDNGKEQMVDASRPELLYRT
DFFPGLGWLLLAELWAELEPKWPKAFWDDWMRRPEQRQGRACIRPEISRTMTFGRKGVSHGQ
FFDQHLKFIKLNQQFVHFTQLDLSYLQREAYDRDFLARVYGAPQLQVEKVRTNDRKELGEVRVQY
TGRDSFKAFKALGVMDDLKSGVPRAGYRGIVTFQFRGRRVHLAPPPTWEGYDPSWN

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

77.3

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MGAT1

Entrez GeneID	4245
GeneBank Accession#	NM_002406.2
Protein Accession#	NP_002397.1
Gene Name	MGAT1
Gene Alias	GLCNAC-TI, GLCT1, GLYT1, GNT-1, GNT-I, MGAT
Gene Description	mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase
Omim ID	160995
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase OTTHUMP00000161546

Pathway

- [Metabolic pathways](#)
- [N-Glycan biosynthesis](#)

Disease

- [Amphetamine-Related Disorders](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [HIV Infections](#)
- [Obesity](#)
- [Psychoses](#)