

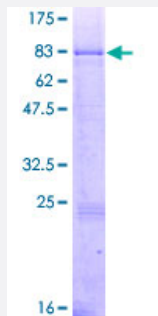
Full-Length

MGAT3 (Human) Recombinant Protein (P01)

Catalog # H00004248-P01

Size 2 ug

Applications



Specification

Product Description

Human MGAT3 full-length ORF (AAH75025.1, 1 a.a. - 533 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MKMRRYKLFLMFCMAGLCLISFLHFFKTLSTVTFPRELASLSPNLVSSFFWNNAPVTPQASPEPG
GPDLLRTPLYSHSPLLQPLPPSKAAEELHRVDLVLPEDTTEYFVRTKAGGVCFKPGTKMLERPPP
GRPEEKPEGANGSSARRPPRYLLSARERTGGRGARRKWVECVCLPGWHGPSCGVPTVVQYSN
LPTKERLVPREVPRRVINAINVNEFDLLDVRFHGLGDVVDVAVVCESNFTAYGEPRPLKFREMLT
NGTFEYIRHKVLYVFLDHFPFGGRQDGIADDYLRFTLTQDGVSRRLNLRPDDVFIDDADEIPARD
GVLFLKLYDGWTEPFAFHMRKSLYGFFWKQPGTLEVVSCTVDMLQAVYGLDGIRLRRRQYYTM
PNFRQYENRTGHILVQWSLGSPLHFAGWHCSWCFTPEGYFKLVSAQNGDFPRWGDYEDKRD
NYIRGLIRTGGWFDGTQQEYPPADPSEHMYAPKYLKKNYDRFHYLLDNPYQEPRSTAAGGWRHRG
PEGRPPARGKLDEAEV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

87.7

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 — MGAT3

Entrez GeneID[4248](#)**GeneBank Accession#**[BC075025.2](#)**Protein Accession#**[AAH75025.1](#)**Gene Name**

MGAT3

Gene Alias

FLJ43371, GNT-III, GNT3, MGC141943, MGC142278

Gene Description

mannosyl (beta-1,4-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase

Omim ID[604621](#)**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. The enzyme encoded by this gene transfers a GlcNAc residue to the beta-linked mannose of the trimannosyl core of N-linked oligosaccharides and produces a bisecting GlcNAc. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq]

Other Designations

GlcNAc-T III|N-acetylglucosaminyltransferase III|N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase III|OTTHUMP00000028574|OTTHUMP00000042207|beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase

Pathway

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