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Product Information

MemDX™ Membrane Protein Human MGAT2 (Alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase) Full Length

Cat. No.: **MPC3114K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human MGAT2 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
MGAT2

Protein Length
Full length

Protein Class
Transferase

TMD
1

Sequence
MRFRIYKRKVLILTLVVAACGFVLWSSNGRQRKNEALAPPLLDAEPARGA
GGRGGDHPSVAVGIRRVSNVSAASLVPAVPQPEADNLTLRYRSLVYQLNF
DQTLRNVDKAGTWAPRELVLVVQVHNRPEYLRLLLDSLRKAQGIDNVLVI
FSHDFWSTEINQLIAGVNFCPVLQVFFPFSIQLYPNEFPGSDPRDCPRDL
PKNAALKLGCINAEYPDSFGHYREAKFSQTKHHWWWKLHFVWERVKILRD
YAGLILFLEEDHYLAPDFYHVFKKMWKLKQQECPECDVLSLGTYSASRSF
YGMADKVDVKTWKSTEHNMGLALTRNAYQKLIECTDTFCTYDDYNWDWTL
QYLTVSCLPKFWKVLVPQIPRIFHAGDCGMHHKKTCRPSTQSAQIESLLN
NNKQYMFPETLTISEKFTVVAISPPRKNGGWGDIRDHELCKSYRRLQ

Product Description

Expression Systems
HEK293

Tag
Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

MGAT2

Full Name

Alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase

Introduction

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.

Alternative Names

MGAT2; GNT2; CDG2A; CDGS2; GNT-II; GLCNACTII; Beta-1,2-N-acetylglucosaminyltransferase II; N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase II; UDP-N-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; Alpha-1,6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase

Gene ID

4247

UniProt ID

Q10469