
Product Data Sheet

Product Name: MGAT2 Human, Sf9
 Cat. No.: GP21920
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Alpha-1; 6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase; MGAT2; CDG2A; CDGS2; GLCNACTII; GNT-II; GNT2; Beta-1;2-N-acetylglucosaminyltransferase II; GlcNAc-T II; Mannoside acetylglucosaminyltransferase 2; N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase II.		
Amino Acid Sequence	ADPRQRKNEA LAPPLDAEP ARGAGGRGGD HPSVAVGIRR VSNVSAASLV PAVPQPEADN LTLRYRSLVY QLNFDQTLRN VDKAGTWAPR ELVLVVQVHN RPEYLRLLLD SLRKAQGIDN VLVIFSHDFW STEINQLIAG VNFCPVLQVF FPFISQLYPN EFPGSDPRDC PRDLPKNAALKLGCINAEYP DSFGHYREAK FSQTKHHWWW KLHFVWERVK ILRDYAGLIL FLEEDHYLAP DFYHVFKKMW KLKQQECPEC DVLSLGTYSR SRSFYGMADK VDVKTWKSTE HNMGLALTRN AYQKLIECTD TFCTYDDYNW DWTLQYLTVS CLPKFWKVLV PQIPRIFHAG DCGMHHKKTCPSTQSAQIE SLLNNNKQYM FPETLTISEK FTVVAISPPR KNGGWGDIRD HELCKSYRRL QHHHHHH.		
Formulation	MGAT2 protein solution (0.25mg/ml) contains 20mM Tris-HCl (pH 7.5), 10% glycerol, 0.15M NaCl and 1mM DTT.		

Introduction

MGAT2 is an enzyme which takes part in the catalyzation of a crucial step in the reaction of oligomannose which converts to complex N-glycans. MGAT2 has three domains, classic to glycosyltransferase: short N-terminal cytoplasmic domain, a C-terminal catalytic domain and hydrophobic non-cleavable signal-anchor domain. The enzyme MGAT2 is encoded by the MGAT2 gene in humans. There are no introns in the DNA coding the gene, therefore mutations in the MGAT2 will result in carbohydrate-deficient glycoprotein syndrome, type II.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

MGAT2 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 427 amino acids (30-447a.a.) and having a molecular mass of 49.3kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). MGAT2 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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