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**Product Data Sheet**


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Product Name: MGAT2 Human  
 Cat. No.: GP21919  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Mannosyl (Alpha-1;6-)-Glycoprotein Beta-1;2-N-Acetylglucosaminyltransferase; GlcNAc-T II; Mannoside Acetylglucosaminyltransferase 2; GNT-II; Beta-1;2-N-Acetylglucosaminyltransferase II; N-Glycosyl-Oligosaccharide-Glycoprotein N-Acetylglucosaminyltransferase II; EC 2.4.1.143; CDG2A; CDGS2; GLCNACTI; NT2; Alpha-1;6-Mannosyl-Glycoprotein 2-Beta-N-Acetylglucosaminyltransferase; UDP-N-Acetylglucosamine:Alpha-6-D-Mannoside; Beta-1;2-N-Acetylglucosaminyltransferase II.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MRQRKNEALA PPLDAEPAR GAGGRGGDHP SVAVGIRRVV NVSAASLVPA VPQPEADNLT LRYRSLVYQL NFDQTLRNVD KAGTWAPREL VLVVQVHNRP EYLRLLLDL RKAQGIDNVL VIFSHDFWST EINQLIAGVN FCPVLQVFFP FSIQLYPNEF PGSDPRDCPR DLPKNAALKL GCINAEYPDS FGHYREAKFS QTKHHWWWKL HFVWERVKIL RDYAGLILFL EEDHYLAPDF YHVFKKMWKL KQQECPECDV LSLGTYSASR SFYGMADKVD VKTWKSTEHN MGLALTRNAY QKLIECTDTF CTYDDYNWDW TLQYLTVSC PKFWKVLVPQ IPRIFHAGDC GMHHKTCRP STQSAQIESL LNNNKQYMF ETLTISEKFT VVAISPPRKN GGWGDIRDHE LCKSYRRLQ.		
Formulation	MGAT2 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M urea.		

**Introduction**

Mannoside Acetylglucosaminyltransferase 2 (MGAT2) is a golgi enzyme catalyzing an vital step in the conversion of oligomannose to complex N-glycans. MGAT2 enzyme has the characteristic glycosyltransferase domains: a short N-terminal cytoplasmic domain, a hydrophobic non-cleavable signal-anchor domain, and a C-terminal catalytic domain.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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MGAT2 gene mutations may lead to carbohydrate-deficient glycoprotein syndrome, type II.

### 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). Please avoid freeze thaw cycles.

### Background

MGAT2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 439 amino acids (30-447a.a) and having a molecular mass of 50kDa. MGAT2 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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