

Human Alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase (MGAT1) ELISA Kit

Catalog No: #EK11508

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Package Size: #EK11508-1 48T #EK11508-2 96T

Description

Product Name	Human Alpha-1,3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase (MGAT1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	GLCNAC-TI; GLCT1; GLYT1; GNT-1; GNT-I; MGAT; N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase OTTHUMP00000161546
Accession No.	P26572
Uniprot	P26572
GeneID	4245;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:1.56-100 ng/mL

Sensitivity:0.54 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate MGAT1 in samples. An antibody specific for MGAT1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMGAT1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MGAT1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MGAT1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:There are 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 exon includes most of the 5-prime untranslated region, the complete coding sequence, and the complete 3-prime untranslated region. Southern blot analysis indicated that the gene exists in single copy in the human genome, and study of human-hamster somatic cell hybrids indicated that the gene is located on chromosome 5. GlcNAc-T I is expressed as 2

mRNAs of 3.1 and 2.7 to 3.0 kb in all tissues tested, although only the 3.1-kb mRNA is seen in brain, and expression levels are low.

Note: This product is for in vitro research use only