

Human UDP-N-acetylglucosamine--dolichyl-phosphate N-acetylglucosaminephosphotransferase (DPAGT1) ELISA Kit

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Catalog No: #EK10541

Package Size: #EK10541-1 48T #EK10541-2 96T

Description

Product Name	Human UDP-N-acetylglucosamine--dolichyl-phosphate N-acetylglucosaminephosphotransferase (DPAGT1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ALG7; CDG-Ij; D11S366; DGPT; DPAGT; DPAGT2; G1PT; GPT; UAGT; UGAT; GlcNAc-1-P transferase N-acetylglucosamine-1-phosphate transferase OTTHUMP00000204055 UDP-GlcNAc:dolichyl-phosphate N-acetylglucosa
Accession No.	Q9H3H5
Uniprot	Q9H3H5
GeneID	1798;
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:0.156-10 ng/mL

Sensitivity:0.059 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 DPAGT1 in samples. An antibody specific for DPAGT1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyDPAGT1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DPAGT1 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 DPAGT1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:DPAGT1 is an enzyme that catalyzes the first step in the dolichol-linked

oligosaccharide pathway for glycoprotein biosynthesis. This enzyme belongs to the glycosyltransferase family 4. This protein is an integral membrane protein of the endoplasmic reticulum. The congenital disorder of glycosylation type Ij is caused by mutation in the gene encoding this enzyme. The cDNA encodes a deduced 400-amino acid protein with a calculated molecular mass of 44.7 kD. DPAGT1 contains an N-terminal signal peptide, 2 potential dolichol-binding sequences, and 4 sites for N-glycosylation. It shares 93% amino acid homology with hamster Dpagt, including 100% identity in the dolichol-binding region, and 42% homology with *S. cerevisiae* GlcNAc-1-P transferase.

Note: This product is for in vitro research use only