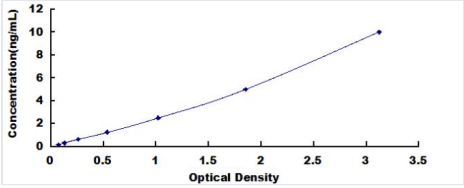
# Dolichyl Phosphate-N-Acetylglucosaminephosphotransferase 1 (DPAGT1) ELISA Kit for Human

## PRODUCT OVERVIEW

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| **Product Name** | Dolichyl Phosphate-N-Acetylglucosaminephosphotransferase 1 (DPAGT1), ELISA Kit |
| **Full Product Name** | Human Dolichyl Phosphate-N-Acetylglucosaminephosphotransferase 1 (DPAGT1) ELISA Kit |
| **Product Gene Name** | DPAGT1 elisa kit |
| **Product Synonym Names** | ALG7; CDG-Ij; DGPT; DPAGT; DPAGT2; G1PT; GPT; UAGT; UGAT; GlcNAc-1-P Transferase; UDP-N-acetylglucosamine--dolichyl-phosphate N-acetylglucosaminephosphotransferase |
| **Species Reactivity** | Human |
| **Assay Type** | Sandwich |
| **Samples** | Tissue Homogenates, Cell Lysates or Other Biological Fluids. |
| **Detection Range** | 0.156-10ng/mL |
| **Sensitivity** | 0.059ng/mL |
| **Preparation and Storage** | For unopened kits: All the reagents should be kept at 4 degree C upon receipt.<br>For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal. |
| **Molecular Weight** | 34,270 Da |
| **OMIM** | 191350 |
| **3D Structure** | ModBase 3D Structure for Q9H3H5 |
| **RTU ELISA Kit's Advantage** | The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits. |
| **ISO Certification** | Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory. |
| **Related Product Information for DPAGT1 elisa kit** | Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to DPAGT1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to DPAGT1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain DPAGT1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of DPAGT1 in the samples is then determined by comparing the O.D. of the samples to the standard curve. |
| **Other Notes** | Small volumes of DPAGT1 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for DPAGT1 purchase** | MBS458905 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Dolichyl Phosphate-N-Acetylglucosaminephosphotransferase 1 (DPAGT1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing DPAGT1. The ELISA analytical biochemical technique of the MBS458905 kit is based on DPAGT1 antibody-DPAGT1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DPAGT1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DPAGT1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%). |




**Typical Testing Data/Standard Curve (for reference only) of DPAGT1 elisa kit**

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DPAGT1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 42794009 |
| **NCBI GeneID** | 1798 |
| **NCBI Accession #** | NP_001373.2 |
| **UniProt Primary Accession #** | Q9H3H5 |
| **UniProt Secondary Accession #** | O15216; Q86WV9; Q9BWE6 |
| **UniProt Related Accession #** | Q9H3H5 |
| **GenBank Nucleotide #** | NM_001382.3 |
| **NCBI Official Full Name** | UDP-N-acetylglucosamine--dolichyl-phosphate N-acetylglucosaminephosphotransferase |
| **NCBI Official Synonym Full Names** | dolichyl-phosphate N-acetylglucosaminephosphotransferase 1 |
| **NCBI Official Symbol** | DPAGT1 |
| **NCBI Official Synonym Symbols** | GPT; ALG7; DGPT; G1PT; UAGT; UGAT; CDG1J; CMS13; DPAGT; CDG-Ij; CMSTA2; DPAGT2; D11S366 |
| **UniProt Protein Name** | UDP-N-acetylglucosamine--dolichyl-phosphate N-acetylglucosaminephosphotransferase |
| **UniProt Synonym Protein Names** | GlcNAc-1-P transferase; G1PT; GPT; N-acetylglucosamine-1-phosphate transferase |
| **Protein Family** | UDP-N-acetylglucosamine--dolichyl-phosphate N-acetylglucosaminephosphotransferase |
| **UniProt Gene Name** | DPAGT1 |
| **UniProt Synonym Gene Names** | DPAGT2; G1PT; GPT |
| **NCBI Protein Information** | UDP-N-acetylglucosamine--dolichyl-phosphate N-acetylglucosaminephosphotransferase |
| **NCBI Summary for DPAGT1** | The protein encoded by this gene 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. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for DPAGT1** | Catalyzes the initial step in the synthesis of dolichol-P-P-oligosaccharides. |
| **Research Articles on DPAGT1** | **1.** present work improves our knowledge of DPAGT1-CDG and provides bases for developing tailored splicing and folding therapies |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

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