

Full-Length

FPGT (Human) Recombinant Protein (P01)

Catalog # H00008790-P01 Size 25 ug, 10 ug

Applications



Specification	
Product Description	Human FPGT full-length ORF (NP_003829.2, 1 a.a 594 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MAAARDPPEVSLREATQRKLRRFSELRGKLVARGEFWDIVAITAADEKQELAYNQQLSEKLKRKE LPLGVQYHVFVDPAGAKIGNGGSTLCALQCLEKLYGDKWNSFTILLIHSGGYSQRLPNASALGKIFT ALPLGNPIYQMLELKLAMYIDFPLNMNPGILVTCADDIELYSIGEFEFIRFDKPGFTALAHPSSLTIGTT HGVFVLDPFDDLKHRDLEYRSCHRFLHKPSIEKMYQFNAVCRPGNFCQQDFAGGDIADLKLDSD YVYTDSLFYMDHKSAKMLLAFYEKIGTLSCEIDAYGDFLQALGPGATVEYTRNTSNVIKEESELVEM RQRIFHLLKGTSLNVVVLNNSKFYHIGTTEEYLFYFTSDNSLKSELGLQSITFSIFPDIPECSGKTSCII QSILDSRCSVAPGSVVEYSRLGPDVSVGENCIISGSYILTKAALPAHSFVCSLSLKMNRCLKYATM AFGVQDNLKKSVKTLSDIKLLQFFGVCFLSCLDVWNLKVTEELFSGNKTCLSLWTARIFPVCSSL SDSVITSLKMLNAVKNKSAFSLNSYKLLSIEEMLIYKDVEDMITYREQIFLEISLKSSLM
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	93
Interspecies Antigen Sequence	Mouse (75); Rat (72)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow



Product Information

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCI, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — FPGT	
Entrez GeneID	<u>8790</u>
GeneBank Accession#	NM_003838.2
Protein Accession#	NP_003829.2
Gene Name	FPGT
Gene Alias	GFPP
Gene Description	fucose-1-phosphate guanylyltransferase
Omim ID	603609
Gene Ontology	<u>Hyperlink</u>



Product Information

Gene Summary

L-fucose is a key sugar in glycoproteins and other complex carbohydrates since it may be involve d in many of the functional roles of these macromolecules, such as in cell-cell recognition. The fuc osyl donor for these fucosylated oligosaccharides is GDP-beta-L-fucose. There are two alternate pathways for the biosynthesis of GDP-fucose; the major pathway converts GDP-alpha-D-mannos e to GDP-beta-L-fucose. The protein encoded by this gene participates in an alternate pathway th at is present in certain mammalian tissues, such as liver and kidney, and appears to function as a salvage pathway to reutilize L-fucose arising from the turnover of glycoproteins and glycolipids. Th is pathway involves the phosphorylation of L-fucose to form beta-L-fucose-1-phosphate, and then condensation of the beta-L-fucose-1-phosphate with GTP by fucose-1-phosphate guanylyltransfer ase to form GDP-beta-L-fucose. [provided by RefSeq

Other Designations

GDP-beta-L-fucose pyrophosphorylase|OTTHUMP00000011173|fucose-1-phosphate guanyltran sferase

Pathway

- Amino sugar and nucleotide sugar metabolism
- Fructose and mannose metabolism
- Metabolic pathways