

Recombinant Human FPGT Protein, GST-tagged

Cat. No. FPGT-4484H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FPGT full-length ORF (NP_003829.2, 1 a.a. - 594 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	L-fucose is a key sugar in glycoproteins and other complex carbohydrates since it may be involved in many of the functional roles of these macromolecules, such as in cell-cell recognition. The fucosyl 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-mannose to GDP-beta-L-fucose. The protein encoded by this gene participates in an alternate pathway that 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. This 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 guanylyltransferase to form GDP-beta-L-fucose. [provided by RefSeq]
Molecular Mass	93 kDa
AA Sequence	MAAARDPPEVSLREATQRKLRRFSELRGKLVARGEFDIVAITAADEKQELAYNQQLSEKLKRKELPLGVQYHVFVDPAGAKIGNGGSTLCALQCLEKLYGDKWNSFTILLIHS

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GGYSQRLPNASALGKIFTALPLGNPIYQMLELKLAMYIDFPLNMNPGILVTCADDIELY
 SIGEFEFIRFDKPGFTALAHPSSTIGTTHGVFVLDPFDDLKHRDLEYRSCHRFLHKP
 SIEKMYQFNAVCRPGNFCQQDFAGGDIADLKLDSDYVYTDSLIFYMDHKSAKMLLAF
 YEKIGTLSCEIDAYGDFLQALGPGATVEYTRNTSNVIKEESELVEMRQRIFHLLKGTS
 LNVVVLNNSKFYHIGTTEEYLFYFTSDNSLKSELGLQSITFSIFPDIPECSGKTSIIQSI
 LDSRCSVAPGSVVEYSRLGPDVSVGENCIISGSYILTKAALPAHSFVCSLSLKMNRCL
 KYATMAFGVQDNLKKS VKT L S D I K L L Q F F G V C F L S C L D V W N L K V T E E L F S G N K T C L S
 LWTARIFPVCSSLSDSVITSLKMLNAVKNKSAFSLNSYKLLSIEEMLIYKDVEDMITYR
 EQIFLEISLKSSLM

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

FPGT fucose-1-phosphate guanylyltransferase [Homo sapiens]

Official Symbol

FPGT

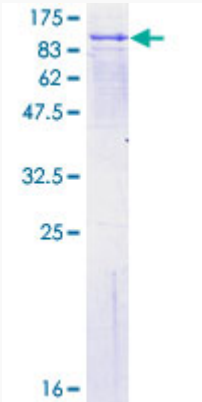
Synonyms

FPGT; fucose-1-phosphate guanylyltransferase; GFPP; GDP-L-fucose
 diphosphorylase; GDP-beta-L-fucose pyrophosphorylase; fucose-1-phosphate
 guanylyltransferase;

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Gene ID	8790
mRNA Refseq	NM_001199328
Protein Refseq	NP_001186257
MIM	603609
UniProt ID	O14772
Quality Control Testing	 12.5% SDS-PAGE Stained with Coomassie Blue.