

Fucose-1-phosphate guanylyltransferase (FPGT) Recombinant Protein | FPGT recombinant protein

Recombinant Human Fucose-1-phosphate guanylyltransferase (FPGT)

CATALOG # AAA114558	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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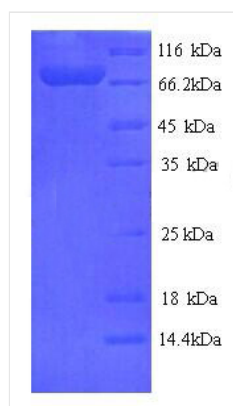
PRODUCT SYNONYMS

Fucose-1-phosphate guanylyltransferase (FPGT); Recombinant Human Fucose-1-phosphate guanylyltransferase (FPGT); FPGT recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-594aa, Full length
Sequence	MAAARDPPEV SLREATQRKL RRFSELRGKL VARGEFDIV AITAADKQE LAYNQQLSEK LKRKELPLGV QYHVFDPAG AKIGNGGSTL CALQCLEKLY GDKWNSFTIL LIHSGGYSQR LPNASALGKI FTALPLGNPI YQMLELKLAM YIDFPLNMNP GILVTCADDI ELYSIGEFEF IRFDKPGFTA LAHPSSLTIG TTHGVFVLDP FDDLKHRDLE YRSCHRFLHK PSIEKMYQFN AVCPRGNFCQ QDFAGGDIAD LKLDSDYVYT DSLFYMDHKS AKMLLAFYEK IGTLSCEIDA YGDFLQALGP GATVEYTRNT SNVIKEESEL VEMRQRIFHL LKGTSLNVVV LNNSKFYHIG TTEEYLFYFT SDNSLKSELG LQSITFSIFP DIPECSGKTS CIIQSILDSR CSVAPGSVVE YSRLGPDVSV GENCIISGSY ILTKAALPAH SFVCSLSLKM NRCLKYATMA FGVQDNLKKS VKTSLDIKLL QFFGVCFSLC LDVWNLKVTE ELFSGNKTCL SLWTARIFPV CSSLSDSVIT SLKMLNAVKN KSAFSLNSYK LLSIEEMLIY KDVEDMITYR EQIFLEISLK SSLM
Sequence Length	169
Species	Human
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for FPGT recombinant protein	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. This protein 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.
Product Categories/Family for FPGT recombinant protein	Metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	510025472
NCBI GeneID	8790
NCBI Accession #	NP_001186257.2
NCBI GenBank Nucleotide #	NM_001199328.2
UniProt Accession #	O14772; Q8N5J7; A6NMH3; B4DRX2; B4E2Y7; E9PNQ2
Molecular Weight	68.6 kDa
NCBI Official Full Name	fucose-1-phosphate guanylyltransferase isoform 3
NCBI Official Synonym Full Names	fucose-1-phosphate guanylyltransferase
NCBI Official Symbol	FPGT
NCBI Official Synonym Symbols	GFPP
NCBI Protein Information	fucose-1-phosphate guanylyltransferase
UniProt Protein Name	Fucose-1-phosphate guanylyltransferase
UniProt Gene Name	FPGT
UniProt Synonym Gene Names	GFPP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/fpgt-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/114558>