

Recombinant Human GFPT2 293 Cell Lysate

Cat. No. GFPT2-5952HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for glutamine-fructose-6-phosphate transaminase 2 (GFPT2) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

GFPT2 glutamine-fructose-6-phosphate transaminase 2 [Homo sapiens]

Official Symbol

GFPT2

Synonyms

GFPT2; glutamine-fructose-6-phosphate transaminase 2; glucosamine--fructose-6-phosphate aminotransferase [isomerizing] 2; GFAT2; glutamine: fructose 6 phosphate aminotransferase 2; GFAT 2; hexosephosphate aminotransferase 2; D-fructose-6-phosphate amidotransferase 2; glutamine:fructose 6 phosphate amidotransferase 2; glutamine: fructose-6-phosphate aminotransferase 2; FLJ10380;

Gene ID

9945

mRNA Refseq

NM_005110

Protein Refseq

NP_005101

MIM

603865

UniProt ID

O94808

**Chromosome
Location**

5q

Pathway

Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Amino sugar and

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nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Asparagine N-linked glycosylation, organism-specific biosystem; Biosynthesis of the N-glycan precursor (dolichol lipid-linked oligosaccharide, LLO) and transfer to a nascent protein, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;

Function

glutamine-fructose-6-phosphate transaminase (isomerizing) activity; sugar binding; transferase activity;

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