

Recombinant Human PFKFB1, GST-tagged

Cat. No. PFKFB1-214H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PFKFB1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	PFKFB1 is a member of the family of bifunctional 6-phosphofructo-2-kinase: fructose-2, 6-biphosphatase enzymes which forms a homodimer that catalyzes both the synthesis and degradation of fructose-2,6-biphosphate using independent catalytic domains. Fructose-2,6-biphosphate is an activator of the glycolysis pathway and an inhibitor of the gluconeogenesis pathway. Regulation of fructose-2,6-biphosphate levels through the activity of this enzyme is thought to regulate glucose homeostasis.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~80 kDa
Purity	>95% by densitometry
Applications	Western Blot
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most

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favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Concentration 0.1 µg/µl

GENE INFORMATION

Gene Name PFKFB1?6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 1 [Homo sapiens?(human)]

Official Symbol PFKFB1

Synonyms PFKFB1; F6PK; HL2K; PFRX; 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 1; PFK/FBPase 1; 6PF-2-K/Fru-2,6-P2ase 1; 6PF-2-K/Fru-2,6-P2ASE liver isozyme; fructose-6-phosphate,2-kinase:fructose-2,6-bisphosphatase; EC 2.7.1.105; EC 3.1.3.46

Gene ID 5207

mRNA Refseq NM_001271804

Protein Refseq ?NP_001258733

MIM 311790

UniProt ID P16118

Chromosome Location Xp11.21

Pathway Fructose and mannose metabolism; Gluconeogenesis; Glucose metabolism

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Function

6-phosphofructo-2-kinase activity; ATP binding; fructose-2,6-bisphosphate 2-phosphatase activity

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