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 Tis-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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA