

Recombinant Human PFKFB4, GST-tagged

Cat. No. PFKFB4-216H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PFKFB4 (2-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	2-end a.a.
Description	PFKFB4 (also known as 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase-4) regulates the steady-state concentration of fructose-2, 6-bisphosphate, a potent activator of a key regulatory enzyme of glycolysis pathway called phosphofructokinase. Isozymes of PFKFB differ in the regions surrounding the catalytic core, which are important for the differential response to allosteric effectors and hormonal signals in different tissues. PFKFB4 is highly expressed in brain, heart, liver, muscle, placenta, adipose tissue, ovary, fallopian tubes, and testis.
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	~82 kDa
Purity	>95% by densitometry
Applications	Western Blot

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Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µl
GENE INFORMATION	
Gene Name	PFKFB4 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 [Homo sapiens]
Official Symbol	PFKFB4
Synonyms	PFKFB4; 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4; 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 4; PFK/FBPase 4; 6PF-2-K/Fru-2,6-P2ase 4; 6PF-2-K/Fru-2,6-P2ase testis-type isozyme; 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase-4; bifunctional enzyme with kinase and biphosphatase activities;
Gene ID	5210
mRNA Refseq	NM_004567
Protein Refseq	NP_004558
MIM	605320
UniProt ID	Q16877
Chromosome Location	3p22-p21
Pathway	Fructose and mannose metabolism, organism-specific biosystem; Fructose and

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mannose metabolism, conserved biosystem; Glucose metabolism, organism-specific biosystem; Glycolysis, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of carbohydrates, organism-specific biosystem;

Function

6-phosphofructo-2-kinase activity; 6-phosphofructo-2-kinase activity; ATP binding; fructose-2,6-bisphosphate 2-phosphatase activity; hydrolase activity; identical protein binding; kinase activity; nucleotide binding; transferase activity;

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