

Recombinant Human PFKFB2, GST-tagged

Cat. No. PFKFB2-67H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PFKFB2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	PFKFB2 is involved in both the synthesis and degradation of fructose-2,6-bisphosphate, a regulatory molecule that controls glycolysis in eukaryotes. PFKFB2 has a 6-phosphofructo-2-kinase activity that catalyzes the synthesis of fructose-2,6-bisphosphate, and a fructose-2,6-biphosphatase activity that catalyzes the degradation of fructose-2,6-bisphosphate. PFKFB2 regulates fructose-2,6-bisphosphate levels in the heart, while a related enzyme encoded by a different gene regulates fructose-2,6-bisphosphate levels in the liver and muscle. PFKFB2 also functions as a homodimer. PFKFB2 play an important role in the regulation of muscle glycolysis during the first moments of exercise.
Form	50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~84 kDa
Applications	Western Blot
Storage	Store product at -70oC. For optimal storage, aliquot target into smaller quantities

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after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	PFKFB2 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2 [Homo sapiens]
Official Symbol	PFKFB2
Synonyms	PFK-2/FBPase-2
Gene ID	5208
mRNA Refseq	NM_006212.2
Protein Refseq	NP_006203.2
MIM	171835
UniProt ID	O60825
Chromosome Location	1q31
Pathway	Fructose and mannose metabolism, organism-specific biosystem;Fructose and 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;ATP binding;fructose-2,6-bisphosphate 2-phosphatase activity;protein binding;protein kinase binding;

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