

Recombinant Human PFKFB3, GST-tagged

Cat. No. PFKFB3-215H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PFKFB3 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
Description	PFKFB3 or 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 is a potent activator of a key regulatory enzyme in the glycolysis pathway called phosphofructokinase. Phosphofructokinase regulates the steady-state concentration of fructose-2,6-bisphosphate, a potent activator of key regulatory enzyme of the glycolysis pathway. PFKFB3 is bifunctional, although the phosphatase activity is low due to a mutation in an active site which can be upregulated after phosphorylation by protein kinases. PFKFB3 may be responsible for sustaining the high glycolytic flux of rapidly proliferating leukemia cells and may represent a molecular target for chemotherapeutic intervention.
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	~83 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	PFKFB3 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 [Homo sapiens]
Official Symbol	PFKFB3
Synonyms	PFKFB3; 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3; 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3; iPFK-2; PFK/FBPase 3; 6PF-2-K/Fru-2,6-P2ase 3; renal carcinoma antigen NY-REN-56; 6PF-2-K/Fru-2,6-P2ase brain/placenta-type isozyme; 6-phosphofructo-2-kinase/ fructose-2,6-bisphosphatase; 6-phosphofructo-2-kinase/fructose-2, 6-bisphosphatase; fructose-6-phosphate,2-kinase/fructose-2, 6-bisphosphatase; inducible 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase; PFK2; IPFK2; FLJ37326;
Gene ID	5209
mRNA Refseq	NM_001145443
Protein Refseq	NP_001138915
MIM	605319
UniProt ID	Q16875
Chromosome	10p15.1

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Location	
Pathway	AMPK signaling, organism-specific biosystem; Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; Glucose metabolism, organism-specific biosystem; Glycolysis, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	6-phosphofructo-2-kinase activity; 6-phosphofructo-2-kinase activity; ATP binding; catalytic activity; fructose-2,6-bisphosphate 2-phosphatase activity; hydrolase activity; kinase activity; nucleotide binding; transferase activity;

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