Recombinant Human PFKP, His-tagged

Cat. No. PFKP-30890TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 35-447 of Human PFKP with an N terminal His tag. Predicted mwt: 47 kDa;
Species	Human
Source	E.coli
ProteinLength	35-447 a.a.
Description	The PFKP gene encodes the platelet isoform of phosphofructokinase (PFK) (ATP:D-fructose-6-phosphate-1-phosphotransferase, EC 2.7.1.11). PFK catalyzes the irreversible conversion of fructose-6-phosphate to fructose-1,6-bisphosphate and is a key regulatory enzyme in glycolysis. The PFKP gene, which maps to chromosome 10p, is also expressed in fibroblasts. See also the muscle (PFKM; MIM 610681) and liver (PFKL; MIM 171860) isoforms of phosphofructokinase, which map to chromosomes 12q13 and 21q22, respectively.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 91 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Store at 4°C. Upon reconstitution store at -80oC.

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Sequences of amino acids	DERRFQDAVRLRGRSFAGNLNTYKRLAIKLPDDQIPKTNC NVAVINVGAPAAGMNA AVRSAVRVGIADGHRMLAIYDG FDGFAKGQIKEIGWTDVGGWTGQGGSILGTKRVL PGKYLE EIATQMRTHSINALLIIGGFEAYLGLLELSAAREKHEE FCVPMVMVPATVS NNVPGSDFSIGADTALNTITDTCDR IKQSASGTKRRVFIIETMGGYCGYLANMGGLA AGADAAYI FEEPFDIRDLQSNVEHLTEKMKTTIQRGLVLRNESCSE NYTTDFIYQLY SEEGKGVFDCRKNVLGHMQQGGAPSPF DRNFGTKISARAMEWITAKLKEARGRGK KFTTDDSICVLG ISKRNVIFQPVAELKKQTDFEHRIPKEQWWLKLRPLMK ILAKYKAS YDVSDSGQLEHVQPWSV
Sequence Similarities	Belongs to the phosphofructokinase family. Two domains subfamily.

GENE INFORMATION

Gene Name	PFKP phosphofructokinase, platelet [Homo sapiens]
Official Symbol	PFKP
Synonyms	PFKP; phosphofructokinase, platelet; 6-phosphofructokinase type C; PFK C; PFKF; Phosphofructokinase; platelet type;
Gene ID	5214
mRNA Refseq	NM_001242339
Protein Refseq	NP_001229268
MIM	171840
Uniprot ID	Q01813

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Chromosome Location	10p15.3-p15.2
Pathway	Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; Galactose metabolism, organism-specific biosystem; Galactose metabolism, conserved biosystem; Glucose metabolism, organism-specific biosystem;
Function	6-phosphofructokinase activity; 6-phosphofructokinase activity; 6-phosphofructokinase activity; ATP binding; fructose-6-phosphate binding;

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