

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 FDGFAKGQIKEIGWTDVGGWTGQGGSSILGTRVL
 PGKYLE EIA TQMRTHSINALLIIGGFEAYLGLLELSAAREKHEE FCVPMVMVPATVS
 NNVPGSDFSIGADTALNTITDTC DR IKQSASGTRRRVFIETMGGYCGYLANMGGLA
 AGADAAYI FEEPFDIRDLQSNVEHLTEKMKTTIQRGLVLRNESCSE NYTTDFIYQLY
 SEEGKGVFDCRKNVLGHMQQGGAPSPF DRNFGTKISARAMEWITAKLKEARGRGK
 KFTTDD SICVLG ISKRNVIFQPVAELKKQTD FEHRIPKEQWWLKLRLPMK 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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