

Recombinant Human PFKM, His-tagged

Cat. No. PFKM-28952TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Fructose 6 Phosphate Kinase with an N-terminal His Tag; 800 amino acids with tag, MWt 87.3kDa.
Species	Human
Source	E.coli
Description	Three phosphofructokinase isozymes exist in humans: muscle, liver and platelet. These isozymes function as subunits of the mammalian tetramer phosphofructokinase, which catalyzes the phosphorylation of fructose-6-phosphate to fructose-1,6-bisphosphate. Tetramer composition varies depending on tissue type. This gene encodes the muscle-type isozyme. Mutations in this gene have been associated with glycogen storage disease type VII, also known as Tarui disease. Alternatively spliced transcript variants have been described.
Conjugation	HIS
Form	Liquid
Storage buffer	Preservative: None Constituents: 20% Glycerol, 0.2M Sodium chloride, 5mM DTT, 20mM Tris HCl, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of amino acids

MGSSHHHHHH SSGLVPRGSH MTHEEHHA AK TLGIGKAI AV LTSGGDAQGM
 NAAVRAVVRV GIFTGARVFF VHEGYQGLVD GGDHIKEATW ESVSMMLQLG
 GTVIGSARCK DFREREGR LR AAYNLVKRGI TNLCVIGGDG SLTGADTFRS
 EWSDLLSDLQ KAGKITDEEA TKSSYLNIVG LVGSIDNDFC GTDMTIGTDS
 ALHRIMEIVD AITTTAQSHQ RTFVLEVMGR HCGYLALVTS LSCGADWVFI
 PECPPDDWE EHLCRRLSET RTRGSRLNII IVAEGAIDKN GKPITSEDIK
 NLVVKRLGYD TRVTVLGHVQ RGGTPSAFDR ILGSRMGVEA VMALLEGTPD
 TPACVVSLSG NQAVRLPLME CVQVTKDVT K AMDEKKFDEA LKLRGRSFMN
 NWEVYKLLAH VRPPVSKSGS HTVAVMN V GA PAAGMNA AVR STVRIGLIQG
 NRVLVVDHGF EGLAKGQIEE AGWSYVGGWT GQGGSKLGTK RTLPKKSFEQ
 ISANITKFNI QGLVIIGGFE AYTGGLELME GRKQFDEL CI PFVVIPATVS
 NNVP GSDFSV GADTALNTIC TTC DRIKQSA AGTKRRVFII ETMGGYCGYL
 ATMAGLAAGA DAAYIFEEP F TIRDLQANVE HLVQKMKT TV KRGLVLRNEK
 CNENYTTDFI FNLYSEEGKG IFDSRKNVLG HMQQGGSPTP FDRNFATKMG
 AKAMNWMSGK IKESYRNGRI FANTPDSGCV LGMRKRALVF QPVAELKDQT
 DFEHRIPKEQ WWLKL RPILK ILAKYEIDLD TSDHAHLEHI TRKRSGEAAV

Sequence Similarities

Belongs to the phosphofructokinase family. Two domains subfamily.

Full Length

Full L.

GENE INFORMATION
Gene Name

PFKM phosphofructokinase, muscle [Homo sapiens]

Official Symbol

PFKM

Synonyms

PFKM; phosphofructokinase, muscle; PFKX, phosphofructokinase, polypeptide X; 6-phosphofructokinase, muscle type; PFK 1;

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Gene ID	5213
mRNA Refseq	NM_000289
Protein Refseq	NP_000280
MIM	610681
Uniprot ID	P08237
Chromosome Location	12q13.11
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; AMP binding; ATP binding;

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