

Recombinant Human PFKM, His-tagged

Cat. No. PFKM-28950TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Fructose 6 Phosphate Kinase with a N terminal His tag. 800 amino acids with a predicted MWt 87.3 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	780 amino acids
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
Molecular Weight	87.300kDa inclusive of tags
Form	Liquid
Purity	by SDS-PAGE

 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

Storage buffer	pH: 8.00Constituents:0.32% Tris HCl, 0.08% DTT, 1.17% Sodium chloride, 20% Glycerol
Storage	Please see Notes section
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MTHEEHHA AK TLGIGKAI AV LTSGGDAQGM NAAVRAVVRV GIFTGARVFF VHEGYQGLVD GGDHIKEATW ESVSMMQLQG GTVIGSARCK DFREREGRLR AAYNLVKRGI TNL CVIGGDG SLTGADTFRS EWSDLLSDLQ KAGKITDEEA TKSSYLNIVG LVGSIDNDFC GTDMTIGTDS ALHRIMEIVD AITTTAQSHQ RTFVLEVMGR HCGYLALVTS LSCGADWVFI PECPPDDDDWE EHLCRRLSET RTRGSRLNII IVAEGAIDKN GKPITSEDIK NLVVKRLGYD TRVTVLGHVQ RGGTPSAFDR ILGSRMGVEA VMALLEGTPD TPACVVSLSG NQAVRLPLME CVQVTKDVT K AMDEKKFDEA LKLRGRSFMN NWEVYKLLAH VRPPVSKSGS HTVAVMNVGA PAAGMNA AVR STVRIGLIQG NRVLVVDHGF EGLAKGQIEE AGWSYVGGWT GQGGSKLGTK RTLPKKSFEQ ISANITKFNI QGLVIIGGFE AYTGGLELME GRKQFDEL CI PFVVIPATVS NNVPGSDFSV GADTALNTIC TTCDRIKQSA 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.
GENE INFORMATION	
Gene Name	PFKM phosphofructokinase, muscle [Homo sapiens]
Official Symbol	PFKM

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