

Recombinant Human PFKM Protein, His-tagged

Cat. No. PFKM-2582H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PFKM Protein (Thr2-His390) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Thr2-His390
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 46.3 kDa Accurate Molecular Mass: 46 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 97%

 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

Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PFKM phosphofructokinase, muscle [Homo sapiens (human)]
Official Symbol	PFKM
Synonyms	PFKM; phosphofructokinase, muscle; PFKX, phosphofructokinase, polypeptide X; 6-phosphofructokinase, muscle type; PFK 1; PFK-A; phosphohexokinase; phosphofructokinase 1; phosphofructokinase-M; 6-phosphofructo-1-kinase; phosphofructo-1-kinase isozyme A; phosphofructokinase, polypeptide X; GSD7; PFK1; PFKA; PFKX; PFK-1; MGC8699;
Gene ID	5213
mRNA Refseq	NM_000289

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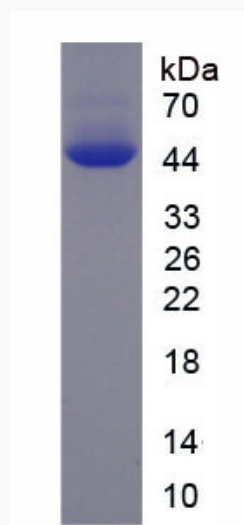
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Protein Refseq NP_000280

MIM 610681

UniProt ID P08237



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