

Recombinant Human PFKM Protein, His tagged

Cat. No. PFKM-2362H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Phosphofructokinase, Muscle with His tag was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-780 aa
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	Sterile PBS, pH 7.4, 0.05% SKL
Molecular Mass	87 kDa
AASequence	MGSSHHHHHHSSGLVPRGSHMTHEEHHA AKTLGIGKIAVLTSGGDAQGMNAAVR AVVRVGIFTGARVFFVHEGYQGLVDGGDHIKEATWESVSMMMLQLGGTVIGSARCKD FREREGRLRAAYNLVKRGITNLCVIGGDGSLTGADTFRSEWSDLLSDLQKAGKITDE EATKSSYLNIVGLVGSIDNDFCGTDMTIGTDSALHRIMEIVDAITTTAQSHQRTFVLEV

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MGRHCGYLALVTSLSGADWVFIPECPPDDDWEEHLCRRLSETRTRGSRLNIIIVAE
 GAIDKNGKPITSEDIKNLVVKRLGYDTRVTVLGHVQRRGGTPSAFDRILGSRMGVEAV
 MALLEGTPDTPACVVSLSGNQAVRLPLMECVQVTKDVTKAMDEKKFDEALKLRGRS
 FMNNWEVYKLLAHVRPPVSKSGSHTVAVMNVGAPAAAGMNAAVRSTVRIGLIQGNR
 VLVVHDGFEGLAKGQIEEAGWSYVGGWTGQGGSKLGTKRTLPKKSFEQISANITKF
 NIQGLVIIGGFAYTGGLELMEGRKQFDELCPFVVIPATVSNNVPGSDFSVGADTAL
 NTICTTCDRIKQSAAGTKRRVFIETMGGYCGYLATMAGLAAGADAAYIFEETPTIRDL
 QANVEHLVQKMKTTVKRGLVLRNEKCNENYTTDFIFNLVSEEGKGIFDSRKNVLGH
 MQQGGSPTPFDRNFATKMGAKAMNWMSGKIKESYRNGRIFANTPDSGCVLGMRK
 RALVFQPVAEKLDQTD FEHRIPKEQWWLKLRPILKILAKYEIDLDTSDHAHLEHITRKR
 SGEAAV

Endotoxin < 1 EU/μg by LAL

Purity >90% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 0.8 mg/mL by Bradford

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;

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PFK1; PFKA; PFKX; PFK-1; MGC8699

Gene ID 5213

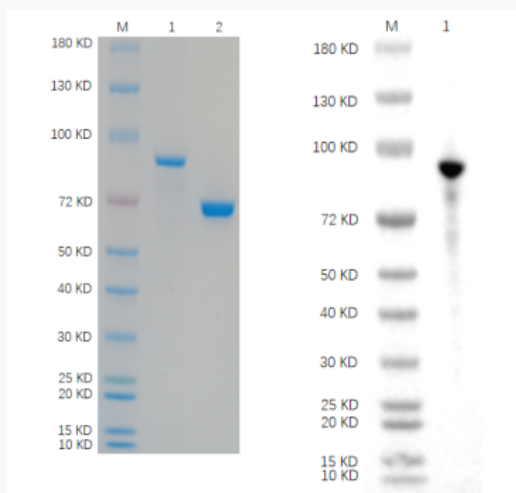
mRNA Refseq NM_000289

Protein Refseq NP_000280

MIM 610681

UniProt ID P08237

SDS-PAGE and WB



Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profiles of purified PFKM. 1. PFKM: 1 µg 2. BSA: 1 µg

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