

Recombinant Human PFKM Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PFKM-2855H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PFKM MS Standard C13 and N15-labeled recombinant protein (NP_000280) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	85.2 kDa
AA Sequence	MTHEEHHAAKTLGIGKIAVLTSGGDAQGMNAAVRVVRVGIFTGARVFFVHEGYQ GLVDGGDHIKEATWESVSMMLQLGGTVIGSARCKDFREREGRLRAAYNLVKRGITN LCVIGGDGSLTGADTFRSEWSDLLSDLQKAGKITDEEATKSSYLNIVGLVGSIDNDFC GTDMTIGTDSALHRIMEIVDAITTTAQSHQRTFVLEVMGRHCGYLALVTSLSGADW VFIPECPPDDDWEEHLCRRLSETRTRGSRLNIIIVAEGAIDKNGKPITSEDIKNLVVKR LGYDTRVTVLGHVQRGGTPSAFDRILGSRMGVEAVMALLEGTPDTPACVVSLSGNQ

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AVRLPLMECVQVTKDVTKAMDEKKFDEALKLRGRSFMNNWEVYKLLAHVRPPVSK
 SGSHTVAVMNVGAPAAAGMNAAVRSTVRIGLIQGNRVLVVDHGFEGFLAKGQIEEAGW
 SYVGGWTGQGGSKLGTKRTLPKKSFEQISANITKFNIQGLVIIGGFAYTGGLELMEG
 RKQFDELCPFVVIPATVSNNVPGSDFSVGADTALNTICTTCDRIKQSAAGTKRRVFII
 ETMGGYCGYLATMAGLAAGADAAYIFEEPFTIRDLQANVEHLVQKMKTTVKRGLVLR
 NEKCNENYTTDFIFNLVSEEGKGIFDSRKNVLGHMQQGGSPFPDRNFATKMGAKA
 MNWMSGKIKESYRNGRIFANTPDSGCVLGMKRKRALVFQPAELKDQTD FEHRIPKE
 QWWLKLRLPILKILAKYEIDLDTSDHAHLEHITRKRSGEAAVTRTRPLEQKLISEEDLAA
 NDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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

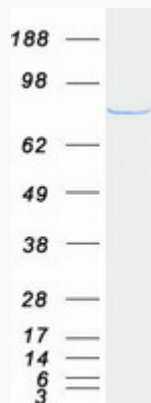
mRNA Refseq NM_000289

Protein Refseq NP_000280

MIM 610681

UniProt ID P08237

SDS-PAGE



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