

Recombinant Full Length Human PFKM Protein, C-Flag-tagged

Cat. No. PFKM-473HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PFKM Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	85 kDa
AA Sequence	MTHEEHHAAKTLGIGKIAVLTSGGDAQGMNAAVRVVRVGIFTGARVFFVHEGYQ GLVDGGDHIKEATW ESVMMLQLGGTVIGSARCKDFREREGRLRAAYNLVKRGITN LCVIGGDGSLTGADTFRSEWSDLLSDLQ KAGKITDEEATKSSYLNIVGLVGSIDNDF CGTDMTIGTDSALHRIMEIVDAITTTAQSHQRTFVLEVMGR HCGYLALVTSLSCGAD WVFIPECPPDDDWEEHLCRRLSETRTRGSRLNIIIVAEGAIDKNGKPITSEDIK NLVVK RLGYDTRVTVLGHVQRGGTPSAFDRILGSRMGVEAVMALLEGTPDTPACVVSLSGN

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QAVRLPLME CVQVTKDVTKAMDEKKFDEALKLRGRSFMNNWEVYKLLAHVRPPVS
 KSGSHTVAVMNVGAPAAAGMNAAVR STVRIGLIQGNRVLVVDHGFEGFLAKGQIEEAG
 WSYVGGWTGQGGSKLGTKRTLPPKKSFEQISANITKFNI QGLVIIGGFEAYTGGLELM
 EGRKQFDELCPFFVIPATVSNNVPGSDFSVGADTALNTICTTCDRIKQSA AGTKRR
 VFIIETMGGYCGYLATMAGLAAGADAAYIFEFPFTIRDLQANVEHLVQKMKTTVKRGL
 VLRNEK CNENYTTDFIFNLVSEEGKGIFDSRKNVLGHMQQGGSPFPDRNFATKMG
 AKAMNWMMSGKIKESYRNGRI FANTPDSGCVLGMKRKRALVFQPAELKDQTD FEHRI
 PKEQWWLKLRPILKILAKYEIDLDTSDHAHLEHI
 TRKRSGEAAVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway
Full Length	Full L.

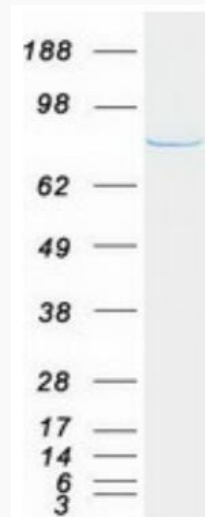
GENE INFORMATION

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Gene Name	PFKM phosphofructokinase, muscle [Homo sapiens (human)]
Official Symbol	PFKM
Synonyms	GSD7; PFK1; PFKA; PFKX; PFK-1; PFK-A; ATP-PFK; PPP1R122
Gene ID	5213
mRNA Refseq	NM_000289.6
Protein Refseq	NP_000280.1
MIM	610681
UniProt ID	P08237



Coomassie blue staining of purified PFKM protein.

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