

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

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

## SPECIFICATION

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

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

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

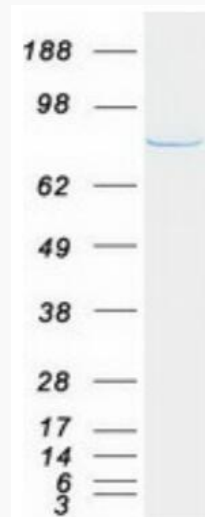
## GENE INFORMATION

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



Coomassie blue staining of purified PFKM protein.

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