

Product datasheet for TP300702

PFKM (NM_000289) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phosphofructokinase, muscle (PFKM), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200702 protein sequence Red=Cloning site Green=Tags(s)

MTHEEHHAAKTLGIGKAIAVLTSGGDAQGMNAAVRAVVRVVGIFTGARVFFVHEGYQGLVDGGDHIKEAT
W
ESVSMMLQLGGTVIGSARCKDFREREGRLRAAYNLVKRGITNLCVIGGDGSLTGADTFRSEWSDLLSDLQ
KAGKITDEEATKSSYLNIVGLVGSIDNDFCGTDMTIGTDSALHRIMEIVDAITTAQSHQRTFVLEVMGR
HCGYLALVTSLSGADWVFIPECPPDDDDWEEHLCRRLSETRTRGRSRLNIIIVAEGAIDKNGKPITSEDIK
NLVVKRLGYDTRVTVLGHVQRGGTPSAFDRILGSRMGVEAVMALLEGTPDTPACVVSLSGNQAVRLPLME
CVQVTKDVTKAMDEKKFDEALKLRGRSFMNNWEVYKLLAHVRPPVSKSGSHTVAVMNVGAPAAAGMNA
AVR
STVRIGLIQGNRVLVWHDGFEGFLAKGQIEEAGWSYVGGWTGQGGSKLGTKRTLPKKSFEQISANITKFNI
QGLVIIGGFAYTGGLELMGRKQFDELCPFVVIPATVSNNVPGSDFSVGADTALNTICTTCDRIKQSA
AGTKRRVFIETMGGYCYLATMAGLAAGADAAYIFEFPFTIRDLQANVEHLVQKMKTTVTKRGLVLRNEK
CNENYTTDFIFNLYSEEGKGFIDSRKNVLGHMQGGSPFPDRNFATKMGAKAMNWMSGKIKESYRNG
RI
FANTPDSGCVLGMKRKALVFQPAELKDQTD FEHRIPKEQWWLKL RPILKILAKYEIDLDTSDHAHLEHI
TRKRSGEAAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

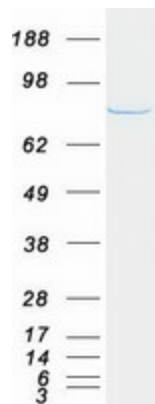
Tag:	C-Myc/DDK
Predicted MW:	85 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



[View online »](#)

Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000280
Locus ID:	5213
UniProt ID:	P08237
RefSeq Size:	3234
Cytogenetics:	12q13.11
RefSeq ORF:	2340
Synonyms:	ATP-PFK; GSD7; PFK-1; PFK-A; PFK1; PFKA; PFKX; PPP1R122
Summary:	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. [provided by RefSeq, Nov 2009]
Protein Families:	Druggable Genome
Protein Pathways:	Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway

Product images:



Coomassie blue staining of purified PFKM protein (Cat# TP300702). The protein was produced from HEK293T cells transfected with PFKM cDNA clone (Cat# [RC200702]) using MegaTran 2.0 (Cat# [TT210002]).