

Product datasheet for PH300702

PFKM (NM_000289) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PFKM MS Standard C13 and N15-labeled recombinant protein (NP_000280)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200702
Predicted MW:	85.2 kDa
Protein Sequence:	>RC200702 protein sequence Red=Cloning site Green=Tags(s)
	<p>MTHEEHAAKTLGIGKIAVLTSGGDAQGMNAAVRAVVRVGIFTGARVFFVHEGYQGLVDGGDHIKEATW ESVSMMLQLGGTVIGSARCKDFREREGRLRAAYNLVKRGITNLCVIGGDGSLTGADTFRSEWSDLLSDLQ KAGKITDEEATKSSYLNIVGLVGSIDNDFCGTDMTIGTDSALHRIMEIVDAITTTAQSHQRTFVLEV MGR HCGYLALVTSLSGADWVFIPECPPDDDWEEHLCRRLSETRTRGSRLNIIIVAEGAIDKNGKPITSEDIK NLVVKRLGYDTRVTVLGHVQRGGTPSAFDRI LGSRMGVEAVMALLEGTPDTPACVVSLSGNQAVRLPLME CVQVTKDVTKAMDEKKFDEALKLRGRSFMNNWEVYKLLAHVRPPVSKSGSHTVAVMNVGAPAAAGMNAAVR STVRIGLIQGNRVLVVDHGFELAKGQIEEAGWSYVGGWTGQGGSKLGTKRTLPKKSFEQISANITKFNI QGLVIIGGFEAYTGLELMGRKQFDEL CIPFVVIPATVSNNVPGSDFSVGADTALNTICTCDRIKQSA AGTKRRVFI IETMGGYCYLATMAGLAAGADAAYIFEEPFTIRDLQANVEHLVQKMKTTVKRGLVLRNEK CNENYTTDFIFNLYSEEGKGFDSRKNVLGHMQGGSPFPDRNFATKMGAKAMNMSGKIKESYRNGRI FANTPDSGCVLGMRKRALVFQPVAELKDQDFEHRIPKEQWMLKLRPILKILAKYEIDLDTSDHAHLEHI TRKRSGEAAV</p> <p>TRTRPLEQKLI SEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000280



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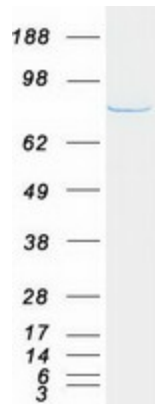
RefSeq Size:	3234
RefSeq ORF:	2340
Synonyms:	ATP-PFK; GSD7; PFK-1; PFK-A; PFK1; PFKA; PFKX; PPP1R122
Locus ID:	5213
UniProt ID:	P08237 , A0A024R0Y5
Cytogenetics:	12q13.11

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]).