

## Product datasheet for **TP300673**

### PFKP (NM\_002627) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phosphofructokinase, platelet (PFKP), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200673 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MDADDSRAPKGLRKFLEHLGAGKAIGVLTSGGDAQGMNAAVRAVVRMGIYVGAKVYFIYEGYQGMVD  
G  
GSNIAEADWESVSSILQVGGTIIGSARCQAFRTREGRLKAACNLLQRGITNLCVIGGDGSLTGANLFRKE  
WSGLLEELARNGQIDKEAVQKYAYLNVVGMVGSIDNDFCGTDMTIGTDSALHRIIEVVDAIMTTAQSHQR  
TFVLEVMGRHCGYLALVSALACGADWWFLPESPPEEGWEEQMCVKLSENRRARKRLNIIIVAEGAIDTQN  
KPITSEKIKELVVTQLGYDTRVTILGHVQRGGTPSAFDRILASRMGVEAVIALLEATPDTPACVWSLNGN  
HAVRLPLMECVQMTQDVQKAMDERRFQDAVRLRGRSFAGNLNTYKRLAIKLPDDQIPKTN CNVAVINVG  
A  
PAAGMNAAVRS AVR VGIADGHRMLAIYDGFDFAKGQIKEIGWTDVGGWGTGQGSILGTRKRVLP GKYLEE  
IATQMRTHSINALLIIGGFEAYLGLLELSAAREKHEEFCVPMVMVPATVSNNVPGSDFSIGADTALNTIT  
DTCDRIKQSASGTRRVFIETMGGYCGYLANMGGLAAGADAAYIFEEPDIRDLQSNVEHLTEKMKTTI  
QRGLVLRNESCENYTTDFIYQLYSEEGKGVFDCRKNVLGHMQGGAPSPFDRNFGTKISARAMEWITAK  
LKEARGRGKKFTTDDSIKRVIFQPV AELKKQTDFEHRIPKEQWWLKL RPLMKILAKYKASYDV  
SDSGQLEHVQPWSV

**SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV**

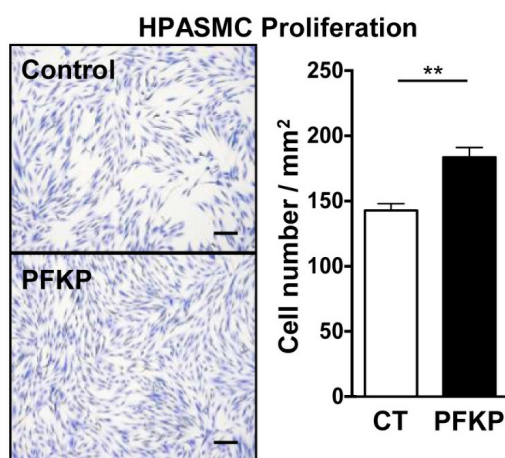
Tag:	C-Myc/DDK
Predicted MW:	85.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Cell treatment (PMID: <a href="https://pubmed.ncbi.nlm.nih.gov/28467929/">28467929</a> )



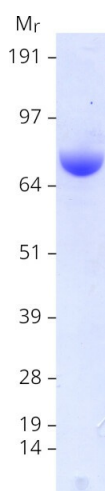
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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<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>RefSeq:</b>	<u>NP_002618</u>
<b>Locus ID:</b>	5214
<b>UniProt ID:</b>	<u>Q01813</u>
<b>RefSeq Size:</b>	2657
<b>Cytogenetics:</b>	10p15.2
<b>RefSeq ORF:</b>	2352
<b>Synonyms:</b>	ATP-PFK; PFK-C; PFK-P; PFKF
<b>Summary:</b>	This gene encodes a member of the phosphofructokinase A protein family. The encoded enzyme is the platelet-specific isoform of phosphofructokinase and plays a key role in glycolysis regulation. This gene may play a role in metabolic reprogramming in some cancers, including clear cell renal cell carcinomas, and cancer of the bladder, breast, and lung. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway

### Product images:



PFKP promotes the proliferation of human pulmonary artery smooth muscle cells (HPASMCs). HPASMCs were serum-starved for 48 hours and stimulated with recombinant PFKP protein (OriGene TP300673) (100 ng/mL) for 72 hours. Fixed cells stained with crystal violet were counted to assess cell proliferation. Figure cited from Cell Metab, PMID: 28467929



Coomassie blue staining of purified PFKP protein (Cat# TP300673). The protein was produced from HEK293T cells transfected with PFKP cDNA clone (Cat# [RC200673]) using MegaTran 2.0 (Cat# [TT210002]).