

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 Red =Cloning site Green =Tags(s) |

MDADDSRAPKGLRKFLEHLSGAGKAIGVLTSGGDAQGMNAAVRAWVRMGIYVVGAKVYFIYEGYQGMVDG
GSNIAEADWESVSSILQVGGTIIGSARCQAFRTREGRLKAACNLLQRGITNLCVIGGDGSLTGANLFRKE
WGLLEELARNGQIDKEAVQKYAYLNVVGMVGSIDNDFCGTDMTIGTDSALHRIIEVVDAIMTTAQSHQR
TFVLEVMGRHCGYLALVSALACGADWWFLPESPPEEGWEEQMCVKLSENRRARKRLNIIIVAEGAIDTQN
KPITSEKIKELVVTQLGYDTRVTILGHVQRGGTPSAFDRILASRMGVEAVIALLEATPDTPACVSLNGN
HAVRLPLMECVQMTQDVQKAMDERRFQDAVRLRGRSFAGNLNTYKRLAIKLPDDQIPKTNCNVAVINVGA
PAAGMNAAVRS AVR VGIADGHRMLAIYDGFDFGFAKQIKEIGWTDVGGWTGQGG SILGTRKRVLP GKYLEE
IATQMRTHSINALLIIGGFEAYLGLLELSAAREKHEEFCVPMVMVPATVSNNVPGSDFSIGADTALNTIT
DTCDRIKQSASGTKRRVFIETMGGYCGYLANMGGLAAGADAAYIFEFPDIRDLQSNVEHLTEKMKTTI
QRGLVLRNESCENYTTDFIYQLYSEEGKGVDFCRKNVLGHMQGGAPSPFDRNFGTKISARAMEWITAK
LKEARGRGKFTTDDSI CVLGISKRNVIFQPVAELKKQTD FEHRIPKEQWWLKL 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: 28467929) |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |



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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_002618](#)

Locus ID: 5214

UniProt ID: [Q01813](#)

RefSeq Size: 2657

Cytogenetics: 10p15.2

RefSeq ORF: 2352

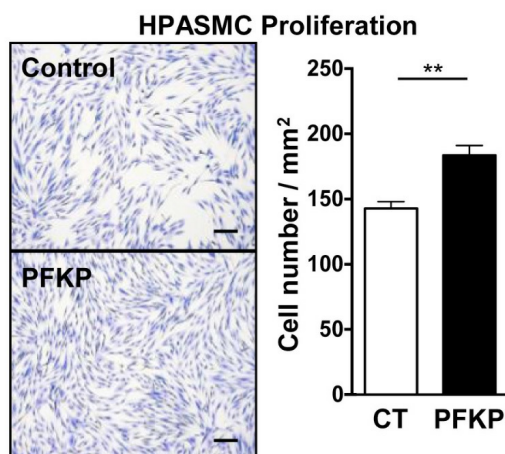
Synonyms: ATP-PFK; PFK-C; PFK-P; PFKF

Summary: 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]

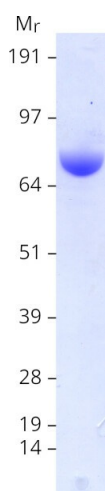
Protein Families: Druggable Genome

Protein Pathways: 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]).