

Active Recombinant Full Length Human PFKP Protein, C-Flag-tagged

Cat. No. PFKP-284HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PFKP Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Cell treatment
Molecular Mass	85.4 kDa
AA Sequence	MDADDSRAPKGSRLRKFLHLGAGKAIGVLTSGGDAQGMNAAVRAVVRMGIYVGA KVYFIYEGYQGMVDG GSNIAEADWESVSSILQVGGTIIGSARCQAFRTREGRLKAA CNLLQRGITNLCVIGGDGSLTGANLFRKE WSGLLEELARNGQIDKEAVQKYAYLNVV GMVGSIDNDFCGTDMTIGTDSALHRIIEVVDAIMTTAQSHQR TFVLEVMGRHCGYLA

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LVSAACGADWVFLPESPPEEGWEEQMCVKLSENARKKRLNIIIVAEGAIDTQN KP
 ITSEKIKELVVTQLGYDTRVTILGHVQRGGTPSAFDRILASRMGVEAVIALLEATPDTP
 ACVVSLNGN HAVRLPLMECVQMTQDVQKAMDERRFQDAVRLRGRSFAGNLNTYK
 RLAIKLDDQIPKTNCNVAVINVGA PAAGMNAAVRSVAVRVGIADGHRMLAIYDGFDFG
 FAKGQIKEIGWTDVGGWTGQGGSSILGTRVLP GKYLEE IATQMRTHSINALLIIGGFE
 AYLGLLELSAAREKHEEFCVPMVMVPATVSNNVPGSDFSIGADTALNTIT DTCDRIK
 QSASGTKRRVFIETMGGYCGYLANMGGLAAGADAAYIFEFPDIRDLQSNVEHLTE
 KMKTTI QRGLVLRNESCSENYTTDFIYQLYSEEGKGVFDCRKNVLGHMQQGGAPS
 PFDRNFGTKISARAMEWITAK LKEARGRGKKFTTDDSCVGLISKRNIVFQPVAELKK
 QTD FEHRIPKEQWWLKLRLPLMKILAKYKASYDV
 SDSGQLEHVQPWSVSGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

GENE INFORMATION

Gene Name PFKP phosphofructokinase, platelet [Homo sapiens (human)]

Official Symbol PFKP

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

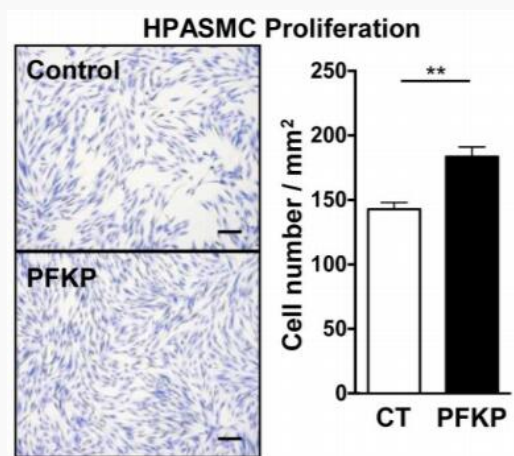
Gene ID 5214

mRNA Refseq NM_002627.5

Protein Refseq NP_002618.1

MIM 171840

UniProt ID Q01813



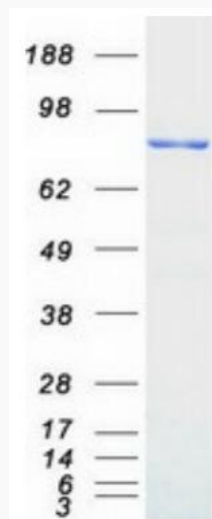
PFKP promotes the proliferation of human pulmonary artery smooth muscle cells (HPASMCs). HPASMCs were serum-starved for 48 hours and stimulated with

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recombinant PFKP protein(100 ng/mL) for 72 hours. Fixed cells stained with crystal violet were counted to assess cell proliferation.



Coomassie blue staining of purified PFKP protein.

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