

Active Recombinant Human PFKP Protein, MYC/DDK-tagged

Cat. No. PFKP-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human phosphofructokinase, platelet (PFKP) with a C-terminal MYC/DDK tag was expressed in HEK293T.
Species	Human
Source	HEK293
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.
Bio-activity	Cell treatment.
Molecular Mass	85.4 kDa
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.

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Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	PFKP phosphofructokinase, platelet [Homo sapiens (human)]
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Official Symbol	PFKP
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Synonyms	PFKP; phosphofructokinase, platelet; PFKF; PFK-C; PFK-P; ATP-PFK; ATP-dependent 6-phosphofructokinase, platelet type; 6-phosphofructokinase type C; 6-phosphofructokinase, platelet type; phosphofructo-1-kinase isozyme C; phosphofructokinase 1; phosphohexokinase; EC 2.7.1.11
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Gene ID	5214
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mRNA Refseq	NM_002627
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Protein Refseq	NP_002618
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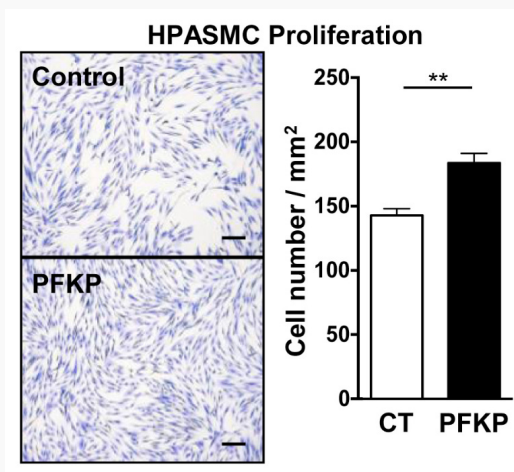
MIM	171840
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UniProt ID	Q01813
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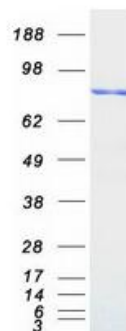
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PFKP promotes the proliferation of human pulmonary artery smooth muscle cells (HPASMCs). HPASMCs were serum-starved for 48 hours and stimulated with recombinant PFKP protein (100 ng/mL) for 72 hours. Fixed cells stained with crystal violet were counted to assess cell proliferation.

Coomassie blue staining of purified PFKP protein.



The protein was produced from HEK293T cells transfected with PFKP cDNA clone using MegaTran 2.0.