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Product datasheet for TP301573

PFKFB4 (NM_004567) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 (PFKFB4), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201573 protein sequence Red=Cloning site Green=Tags(s) MASPRELTQNPLKKIWMPYSNGRPALHACQRGVCMTNCPTLIVMVGLPARGKTYISKKLTRYLNWIGVPT REFNVGQYRRDVVKTYKSFEFFLPDNEEGLKIRKQCALAALRDVRRFLSEEGGHVAVFDATNTTRERRAT IFNFGEQNGYKTFFVESICVDPEVIAANIVQVKLGSPDYVNRDSDEATEDFMRRIECYENSYESLDEDLD RDLSYIKIMDVGQSYVVNRVADHIQSRIVYYLMNIHVTPRSIYLCRHGESELNLKGRIGGDPGLSPRGRE FAKSLAQFISDQNIKDLKVWTSQMKRTIQTAEALGVPYEQWKVLNEIDAGVCEEMTYEEIQDNYPLEFAL RDQDKYRYRYPKGESYEDLVQRLEPVIMELERQENVLVICHQAVMRCLLAYFLDKAAEQLPYLKCPLHTV LKLTPVAYGCKVESIFLNVAAVNTHRDRPQNVDISRPPEEALVTVPAHQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	53.9 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
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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.

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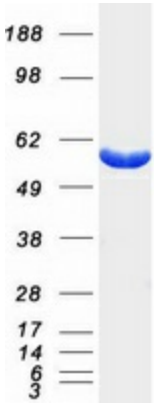
RefSeq:	NP_004558
Locus ID:	5210
UniProt ID:	Q16877
RefSeq Size:	3503
Cytogenetics:	3p21.31
RefSeq ORF:	1407
Summary:	The protein encoded by this gene is one of four bifunctional kinase/phosphatases that regulate the concentration of the glycolytic byproduct fructose-2,6-bisphosphate (F2,6BP). The encoded protein is highly expressed in cancer cells and is induced by hypoxia. This protein is essential to the survival of cancer cells under conditions of hypoxia, because it increases the amount of F2,6BP and ATP at a time when the cell cannot produce much of them. This finding suggests that this protein may be a good target for disruption in cancer cells, hopefully imperiling their survival. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2015]
Protein Families:	Druggable Genome
Protein Pathways:	Fructose and mannose metabolism

Product images:



Coomassie blue staining of purified PFKFB4 protein (Cat# TP301573). The protein was produced from HEK293T cells transfected with PFKFB4 cDNA clone (Cat# [RC201573]) using MegaTran 2.0 (Cat# [TT210002]).