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Product datasheet for PH301573

PFKFB4 (NM_004567) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PFKFB4 MS Standard C13 and N15-labeled recombinant protein (NP_004558)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201573
Predicted MW:	54 kDa
Protein Sequence:	>RC201573 protein sequence Red=Cloning site Green=Tags(s) MASPRELTQNPLKKIWMPYSNGRPALHACQRGVCMTNCPTLIVMVGLPARGKTYISKKLTRYLNWIGVPT REFNVGQYRRDVVKTYKSFEFFLPDNEEGLKIRKQCALAALRDVRRFLSEEGGHVAVFDATNTTRERRAT IFNFGEQNGYKTFFVESICVDPEVIAANIVQVKLGSPDYVNRDSDEATEDFMRRIECYENSYESLDEDLD RDLSYIKIMDVGQSYVVNRVADHIQSRIVYYLMNIHVTPRSIYLCRHGESELNLKGRIGGDPGLSPRGRE FAKSLAQFISDQNIKDLKVWTSQMKRTIQTAEALGVPYEQWKVLNEIDAGVCEEMTYEEIQDNYPLEFAL RDQDKYRYRYPKGESYEDLVQRLEPVIMELERQENVLVICHQAVMRCLLAYFLDKAAEQLPYLKCPLHTV LKLTPVAYGCKVESIFLNVAAVNTHRDRPQNVDISRPPEEALVTVPAHQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004558
RefSeq Size:	3503
RefSeq ORF:	1407
Locus ID:	5210

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UniProt ID: Q16877

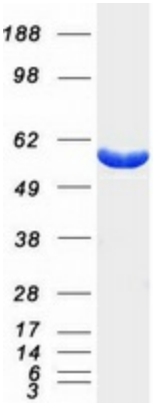
Cytogenetics: 3p21.31

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]).