Recombinant Full Length Human PFKFB4 Protein, C-Flag-tagged

Cat. No. PFKFB4-1636HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PFKFB4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	53.9 kDa
AA Sequence	MASPRELTQNPLKKIWMPYSNGRPALHACQRGVCMTNCPTLIVMVGLPARGKTYIS KKLTRYLNWIGVPT REFNVGQYRRDVVKTYKSFEFFLPDNEEGLKIRKQCALAALRD VRRFLSEEGGHVAVFDATNTTRERRAT IFNFGEQNGYKTFFVESICVDPEVIAANIV QVKLGSPDYVNRDSDEATEDFMRRIECYENSYESLDEDLD RDLSYIKIMDVGQSYV

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	VNRVADHIQSRIVYYLMNIHVTPRSIYLCRHGESELNLKGRIGGDPGLSPRGRE FAK SLAQFISDQNIKDLKVWTSQMKRTIQTAEALGVPYEQWKVLNEIDAGVCEEMTYEEI QDNYPLEFAL RDQDKYRYRYPKGESYEDLVQRLEPVIMELERQENVLVICHQAVMR CLLAYFLDKAAEQLPYLKCPLHTV LKLTPVAYGCKVESIFLNVAAVNTHRDRPQNVDISRPPEEALVTVPAHQTRTRPLEQ KLISEEDLAANDILDYKDDDDKV
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
Full Length	Full L.

GENE INFORMATION

Gene Name	PFKFB4 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 [Homo sapiens (human)]
Official Symbol	PFKFB4

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Synonyms	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase-4; bifunctional enzyme with kinase and biphosphatase activities; 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4
Gene ID	5210
mRNA Refseq	NM_004567.4
Protein Refseq	NP_004558.1
MIM	605320
UniProt ID	Q16877

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA