

Recombinant Human PFKFB1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PFKFB1-4477H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PFKFB1 MS Standard C13 and N15-labeled recombinant protein (NP_002616) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the family of bifunctional 6-phosphofructo-2-kinase:fructose-2,6-biphosphatase enzymes. The enzyme forms a homodimer that catalyzes both the synthesis and degradation of fructose-2,6-biphosphate using independent catalytic domains. Fructose-2,6-biphosphate is an activator of the glycolysis pathway and an inhibitor of the gluconeogenesis pathway. Consequently, regulating fructose-2,6-biphosphate levels through the activity of this enzyme is thought to regulate glucose homeostasis. Multiple alternatively spliced transcript variants have been found for this gene.
Molecular Mass	54.7 kDa
AA Sequence	MSPEMGELTQTRLQKIWIPIHSSGSSRLQRRRGSSIPQFTNSPTMVIMVGLPARGKTYISTKLTRYLNWIGTPTKVFNLGQYRREAVSYKNYEFFLPDNMEALQIRKQCALAALKDVHNYLSHEEGHVAVFDATNTTRERRSLILQFAKEHGYKVFFIESICNDPGIIAENIRQVKLGSPDYIDCDREKVLDFLKRIECYEVNYQPLDEELDSHLSYIKIFDVGTRYMVNRVQDHIQSRTVYYLMNIHVTPRSIYLCRHGESELNIRGRIGGDSGLSVRGKQYAYALA

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NFIQSQGISSLKVWTSHEMKRTIQTAELGVPHEQWKALNEIDAGVCEEMTYEEIQEH
YPEEFALRDQDKYRYRYPKGESYEDLVQRLEPVMELERQENVLVICHQAVMRCLLA
YFLDKSSDELPYLKCPHVTVLKLTVPVAYGCKVESIYLNVEAVNTHREKPENVDITREP
EEALDTPAHYTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PFKFB1 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 1 [Homo sapiens (human)]

Official Symbol PFKFB1

Synonyms PFKFB1; F6PK; HL2K; PFRX; 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 1; 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 1; PFK/FBPase 1; 6PF-2-K/Fru-2,6-P2ase 1; 6PF-2-K/Fru-2,6-P2ASE liver isozyme; fructose-6-phosphate,2-kinase:fructose-2,6-bisphosphatase; EC 2.7.1.105; EC 3.1.3.46

Gene ID 5207

mRNA Refseq NM_002625

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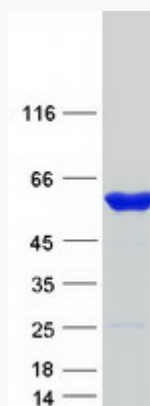
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Protein Refseq NP_002616

MIM 311790

UniProt ID P16118

SDS-PAGE



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