Datasheet for ABIN1945453

PFKFB1 Protein (AA 2-471) (His tag)

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Overview

Quantity:	50 µg
Target:	PFKFB1
Protein Characteristics:	AA 2-471
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PFKFB1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Fructose-2,6-Bisphosphatase 1/PFKFB1/PFK/FBPase 1 (C-6His)
Sequence:	SPEMGELTQT RLQKIWIPHS SGSSRLQRRR GSSIPQFTNS PTMVIMVGLP ARGKTYISTK LTRYLNWIGT PTKVFNLGQY RREAVSYKNY EFFLPDNMEA LQIRKQCALA ALKDVHNYLS HEEGHVAVFD ATNTTRERRS LILQFAKEHG YKVFFIESIC NDPGIIAENI RQVKLGSPDY IDCDREKVLE DFLKRIECYE VNYQPLDEEL DSHLSYIKIF DVGTRYMVNR VQDHIQSRTV YYLMNIHVTP RSIYLCRHGE SELNIRGRIG GDSGLSVRGK QYAYALANFI QSQGISSLKV WTSHMKRTIQ TAEALGVPYE QWKALNEIDA GVCEEMTYEE IQEHYPEEFA LRDQDKYRYR YPKGESYEDL VQRLEPVIME LERQENVLVI CHQAVMRCLL AYFLDKSSDE LPYLKCPLHT VLKLTPVAYG CKVESIYLNV EAVNTHREKP ENVDITREPE EALDTVPAHY VDHHHHHH
Characteristics:	Recombinant Human PFKFB1 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (AA 2-471) of Human PFKFB1 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	PFKFB1
Alternative Name:	PFKFB1 (PFKFB1 Products)
Background:	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 1 is an enzyme that in humans is encoded by the PFKFB1 gene. The enzyme forms a homodimer that catalyzes both the synthesis and degradation of fructose-2,6-biphosphate using independent catalytic domains. It belongs to the phosphoglycerate mutase family. 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.
Molecular Weight:	55.6 kDa
UniProt:	P16118
Pathways:	Regulation of Carbohydrate Metabolic Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM PB,150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

Handling

Expiry Date:	6 months