

# Recombinant Human PFKFB1 Protein (His Tag)

Catalog Number:PKSH032459



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

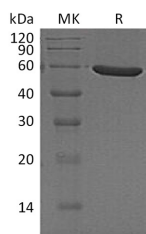
## Description

<b>Synonyms</b>	6-phosphofructo-2-kinase/fructose-2;6-bisphosphatase 1;6PF-2-K/Fru-2;6-P2ase liver isozyme;Fructose-2;6-bisphosphatase;PFKFB1;F6PK;PFRX
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Ser2-Tyr471
<b>Accession</b>	P16118
<b>Calculated Molecular Weight</b>	55.6 kDa
<b>Observed molecular weight</b>	60 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 5% Trehalose, 1mM EDTA, pH 7.8.
<b>Reconstitution</b>	Not Applicable

## Data



> 95 % as determined by reducing SDS-PAGE.

## 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-bisphosphate using independent catalytic domains. It belongs to the phosphoglycerate mutase family. Fructose-2,6-bisphosphate is an activator of the glycolysis pathway and an inhibitor of the gluconeogenesis pathway. Consequently, regulating fructose-2,6-bisphosphate levels through the activity of this enzyme is thought to regulate glucose homeostasis.

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