

PFKFB1 Protein, Human, Recombinant (His)

General Information

Synonyms:	PFKFB1;F6PK;6-P2ase liver isozyme;6-bisphosphatase 1;6PF-2-K/Fru-2;6-bisphosphatase;PFRX;Fructose-2;6-phosphofructo-2-kinase/fructose-2
Protein Construction:	Ser2-Tyr471
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P16118
Molecular Weight:	60 KDa (reducing condition)
AA Sequence:	Ser2-Tyr471

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, 5% Trehalose, 1 mM EDTA, pH 7.8.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein 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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