

PFKP Protein, Human (sf9, His-GST)

Cat. No.:	HY-P75971
Synonyms:	ATP-dependent 6-phosphofructokinase, platelet type; ATP-PFK; PFK-P; PFK-C; PFKP
Species:	Human
Source:	Sf9 insect cells
Accession:	Q01813 (M1-V784)
Gene ID:	5214
Molecular Weight:	Approximately 113.4 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 300 mM NaCl, 10% Glycerol, pH 8.0, 0.5 mM TCEP. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The PFKP protein plays a pivotal role in cellular energy metabolism by catalyzing the phosphorylation of D-fructose 6-phosphate to fructose 1,6-bisphosphate using ATP as a substrate. This enzymatic activity marks the initial and committing step of glycolysis, a fundamental pathway crucial for energy production. Through its catalytic function, PFKP regulates the entry of glucose into glycolysis, initiating a series of biochemical reactions that contribute to the generation of ATP and other essential metabolites. The importance of PFKP in orchestrating this key step underscores its central role in cellular energy homeostasis, emphasizing its significance in the broader context of metabolic regulation.

Caution: Product has not been fully validated for medical applications. For research use only.

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