Recombinant Human PFKFB1 Protein (His Tag)

Catalog No. PKSH032459

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

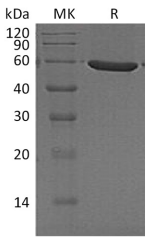
Description

Synonyms	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
Species	Human
Expression Host	HEK293 Cells
Sequence	Ser2-Tyr471
Accession	P16118
Calculated Molecular Weight	55.6 kDa
Observed molecular weight	60 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	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.
Formulation	Supplied as a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, 5% Trehalose, 1mM EDTA, pH 7.8.
Reconstitution	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-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

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fructose-2,6-biphosphate levels through the activity of this enzyme is thought to regulate glucose homeostasis.

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