Recombinant Protein Technical Manual

Recombinant Human PFKFB1 Protein (His Tag)

RPES4328

Product Data:

Product SKU: RPES4328

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P16118

Protein Information:

Molecular Mass:	55.6 kDa
AP Molecular Mass:	60 kDa
Tag:	C-6His
Bio-activity:	
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per µg 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,pH7.4.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
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

Immunogen Information:

Sequence: Ser2-Tyr471

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.