Recombinant Protein Technical Manual

Recombinant Human FBPase 1/FBP1 Protein (E. coli, His Tag)

RPES3740

Product Data:

Product SKU: RPES3740

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P09467

Protein Information:

Molecular Mass:	37.9 kDa
AP Molecular Mass:	38 kDa
Tag:	C-6His
Bio-activity:	
Purity:	> 85 % 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 TrisHCl, 200mM NaCl, 1mM DTT, 1mM EDTA, 20% Glycerol, pH 8.0.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	Fructose;6-Bisphosphatase 1; FBPase 1; D-Fructose;6-Bisphosphate 1-Phosphohydrolase 1; FBP1; FBP

Immunogen Information:

Sequence: Ala2-Gln338

Background:

Fructose,6-Bisphosphatase 1 (FBPase 1) is a member of the FBPase class 1 family. FBPase 1 is a gluconeogenesis regulatory protein, which catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate and inorganic phosphate. FBPase 1 can assume an active R-state, or an inactive T-state. FBPase 1 deficiency is inherited as an autosomal recessive disorder mainly in the liver and causes life-threatening episodes of hypoglycemia and metabolic acidosis in newborn infants or young children. FBPase 1 coupled with phosphofructokinase (PFK) is involved in the metabolism of pancreatic islet cells.