



Recombinant Protein Technical Manual

**Recombinant Human FB Pase 1/FBP1 Protein
(Human Cells, His Tag)**
RPES3762

Product Data:

Product SKU: RPES3762

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P09467

Protein Information:

Molecular Mass: 37.8 kDa

AP Molecular Mass: 35 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 TrisHCl, 200mM NaCl, 1mM DTT, 10% Glycerol, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Fructose;6-bisphosphatase 1;D-fructose;6-bisphosphate 1-phosphohydrolase 1;FBP;FBPase 1

Immunogen Information:

Sequence: Ala2-Gln338

Background:

Fructose,6-bisphosphatase 1(FBP1) is a homotetramer protein and belongs to the FBPase class 1 family. It involves in carbohydrate biosynthesis; gluconeogenesis pathway. FBP1 is a gluconeogenesis regulatory protein which catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate and inorganic phosphate. FBP1 deficiency is associated with hypoglycemia and metabolic acidosis. FBP1 regulates mouse endogenous glucose production. FBP1 coupled with phosphofructokinase (PFK) takes part in the metabolism of pancreatic islet cells.