



Recombinant Protein Technical Manual

Recombinant Human PFK1/PFKM Protein (His & GST Tag)

RPES2459

Product Data:

Product SKU: RPES2459

Size: 50µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: P08237

Protein Information:

Molecular Mass: 112.9 kDa

AP Molecular Mass: 113 kDa

Tag: N-His & GST

Bio-activity:

Purity: > 90 % 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 sterile 20mM Tris, 500mM NaCl, pH 8.5, 10% glycerol

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

Application:

Synonyms: 6-phosphofructokinase; muscle type; Phosphofructo-kinase isozyme A; Phosphofructokinase 1; Phosphohexokinase; PFKM; PFKX; ATP-PFK; GSD7; PFK; PFK1; PFKA; PPP1R122

Immunogen Information:

Sequence: Thr 2-Val 780

Background:

PFK1, also known as PFKM, is a regulatory glycolytic enzyme. PFK1 converts fructose 6-phosphate and ATP into fructose 1,6-bisphosphate (through PFK), fructose 2,6-bisphosphate (through PFK-2) and ADP. It is a muscle-type isozyme. There are three phosphofructokinase isozymes in humans: muscle, liver and platelet. These isozymes function as subunits of the mammalian tetramer phosphofructokinase, which catalyzes the phosphorylation of fructose-6-phosphate to fructose,6-bisphosphate. Mutations in PFK1 gene have been related with glycogen storage disease type VII, also identified as Tarui disease.