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

Catalog Number: PKSH030320

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

Description	
Species	Human
Source	Baculovirus-Insect Cells-derived Human PFK1/PFKM protein Thr 2-Val 780, with an
	N-terminal His & GST
Calculated MW	112.9 kDa
Observed MW	113 kDa
Accession	P08237-1
Bio-activity	Not validated for activity
Properties	
Purity	>90% as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
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 $< -20^{\circ}$ C.
Formulation	Supplied as sterile solution of 20mM Tris, 500mM NaCl, pH 8.5, 10% glycerol
Data	
	KDa MK R
	116
	66.2
	45.0
	35.0
	25.0
	18.4
	14.4
> 90 % as determined by reducing SDS-PAGE.	

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-1), 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-1,6-bisphosphate. Mutations in PFK1 gene have been related with glycogen storage disease type VII, also identified as Tarui disease.