Recombinant Human PFKFB3, GST-tagged

Cat. No. PFKFB3-82913TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PFKFB3 isoform 1 (Q16875-1) (Met 1-His 520) fused with a GST-tag at N-terminal was expressed in Baculovirus-Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	1-520 a.a.
Description	PFKM is regulatory glycolytic enzymes that convert fructose 6-phosphate and ATP into fructose 1,6-bisphosphate (through PFK-1), fructose 2,6-bisphosphate (through PFK-2) and ADP. Three phosphofructokinase isozymes exist in humans: muscle, liver and platelet. Mutations in this gene have been associated with glycogen storage disease type VII, also known as Tarui disease.
Purity	>85 % as determined by SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method
MolecularMass	The recombinant human PFKFB3 /GST chimera consists of 757 amino acids and has a calculated molecular mass of 87.4 KDa. It migrates as an approximately 75 KDa band in SDS-PAGE under reducing conditions.
Formulation	Lyophilized from 0.2μm filtered solution of 20mM Tris, 500mM NaCl, pH 7.0, 10%glycerol, 0.3mM DTT

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Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C

GENE INFORMATION

Gene Name	PFKFB3 6-phosphofructo-2-kinase/ fructose-2, 6-biphosphatase 3 [Homo sapiens]
Synonyms	6-phosphofructo-2-kinase/fructose-2,6- biphosphatase 3; 6-phosphofructo-2-kinase/fructose-2, 6-bisphosphatase; Renal carcinoma antigen NY-REN-56; FLJ37326; 6PF-2-K/Fru-2,6-P2ase 3; OTTHUMP00000019041; 6PF-2-K/Fru-2,6-P2ase brain/placenta-type isozyme; OTTHUMP00000019044; iPFK-2; OTTHUMP00000019048; PFK/FBPase 3; PFK2; IPFK2; fructose-6-phosphate, 2-kinase/fructose-2, 6-bisphosphatase; 6-phosphofructo-2-kinase/ fructose-2,6-bisphosphatase; inducible 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase; OTTHUMP00000019039; OTTHUMP00000019040; OTTHUMP00000019045; OTTHUMP00000019046; OTTHUMP00000019047; OTTHUMP00000019050; OTTHUMP00000019052
Gene ID	5209
mRNA Refseq	NM_001145443.1
Protein Refseq	NP_001138915.1
MIM	605319
UniProt ID	Q5VX15
Chromosome	10p15.1

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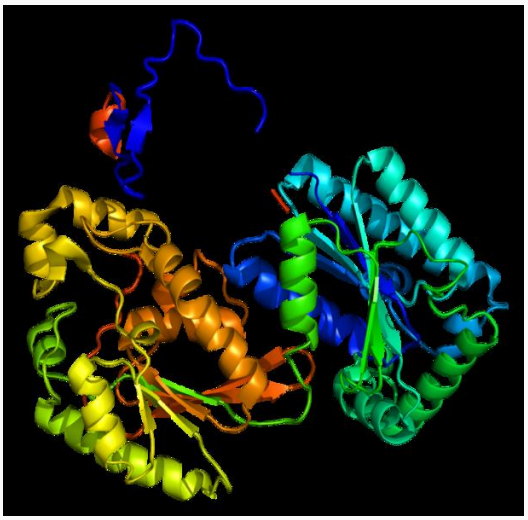
Location	
Pathway	AMPK signaling; Fructose and mannose metabolism; Fructose and mannose metabolism, conserved biosystem; Glucose metabolism; Glycolysis; HIF-1-alpha transcription factor network
Function	6-phosphofructo-2-kinase activity; 6-phosphofructo-2-kinase activity; ATP binding; catalytic activity; fructose-2,6-bisphosphate 2-phosphatase activity; hydrolase activity; identical protein binding; kinase activity; nucleotide binding; protein binding; transferase activity
PDB rendering basedon 2axn.	

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