

Recombinant Human PFKFB3, GST-tagged

Cat. No. PFKFB3-82912TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source Wheat Germ

Product Overview Recombinant human PFKFB3 partial ORF (412 a.a. - 520 a.a.) fused with a GST-tag at N-terminal was expressed in wheat germ and purified by Glutathione Sepharose.

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.

Molecular Mass 37.73 kDa

AA-Sequence CPLHTVLKLTPVAYGCRVESIYLNVESVCTHRERSEDAKKGNPLMRNNSVTPLASP
EPTKKPRINSFEEHVASTSAALPSCLPPEVPTQLPGQNMKGSRSSADSSRKH

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH8.0 in the elution buffer.

Applications ELISA; WB

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

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Official symbol PFKFB3

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; OTTHUMP00000019052; inducible 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase; OTTHUMP00000019039; OTTHUMP00000019040; OTTHUMP00000019045; OTTHUMP00000019046; OTTHUMP00000019047; OTTHUMP00000019050

Gene ID 5209

mRNA Refseq NM_001145443

Protein Refseq NP_001138915

MIM 605319

UniProt ID Q5VX15

Chromosome Location 10p15.1

Pathway AMPK signaling, organism-specific biosystem; Fructose and mannose metabolism,

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organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; Glucose metabolism, organism-specific biosystem; Glycolysis, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem

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

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