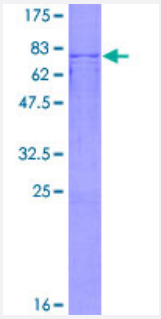
Full-Length

PFKFB2 (Human) Recombinant Protein (P01)

Catalog # H00005208-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PFKFB2 full-length ORF (NP_006203.2, 1 a.a. - 505 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSGASSSEQNNNSYETKTPNLRMSEKKCSWASYMTNSPTLIVMIGLPARGKTYVSKKLTRYLNWI GVPTKVFNLGVYRREAVKSYKSYDFFRHDNEEAMKIRKQCALVALEDVKAYLTEENGQIAVFDAT NTTRERRDMILNFAEQNSFKVFFVESVCDDPDVIAANILEVKVSSPDYPERNRENVMEDFLKRIEC YKVTYRPLDPDNYDKDLSFIKVINVGQRFLVNRVQDYIQSKIVYYLMNIHVQPRTIYLCRHGESEFNLL GKIGGDSGLSVRGKQFAQALRKFLEEQEITDLKVWTSQLKRTIQTAESLGVPYEQWKILNEIDAGV CEEMTYAEIEKRYPEEFALRDQEKYLYRYPGGESYQDLVQRLEPVIMELERQGNVLVISHQAVMR CLLAYFLDKGADELPYLRCPLHTIFKLTPVAYGCKVETIKLNVEAVNTHRDKPTNNFPKNQTPVRM RRNSFTPLSSSNTIRRPRNYSVGSRPLKPLSPLRAQDMQEGAD
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	84.9
Interspecies Antigen Sequence	Mouse (93); Rat (95)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PFKFB2

Entrez GeneID	5208
GeneBank Accession#	NM_006212.2
Protein Accession#	NP_006203.2
Gene Name	PFKFB2
Gene Alias	DKFZp781D2217, MGC138308, MGC138310, PFK-2/FBPase-2
Gene Description	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2
Omim ID	171835
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is involved in both the synthesis and degradation of fructose-2,6-bisphosphate, a regulatory molecule that controls glycolysis in eukaryotes. The encoded protein has a 6-phosphofructo-2-kinase activity that catalyzes the synthesis of fructose-2,6-bisphosphate, and a fructose-2,6-biphosphatase activity that catalyzes the degradation of fructose-2,6-bisphosphate. This protein regulates fructose-2,6-bisphosphate levels in the heart, while a related enzyme encoded by a different gene regulates fructose-2,6-bisphosphate levels in the liver and muscle. This enzyme functions as a homodimer. Two transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq

Other Designations	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2|6PF-2-K/Fru-2,6-P2ASE heart-type isozyme|OTTHUMP00000034285|OTTHUMP00000034286|PFKFB, cardiac|fructose-2,6-bisphosphatase, cardiac isozyme

Pathway

- Fructose and mannose metabolism

Disease

- Birth Weight
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Leukemia
- Meningeal Neoplasms
- Meningioma