

PFKFB3 recombinant protein

PFKFB3, Active

CATALOG # AAA73818	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

PFKFB3; Active; IPFK2; PFK2; PFKFB3 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for PFKFB3 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for PFKFB3 recombinant protein	Recombinant full-length human PFKFB3 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_004566. PFKFB3 or 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 is a potent activator of a key regulatory enzyme in the glycolysis pathway called phosphofructokinase. Phosphofructokinase regulates the steady-state concentration of fructose-2,6-bisphosphate, a potent activator of key regulatory enzyme of the glycolysis pathway. PFKFB3 is bifunctional, although the phosphatase activity is low due to a mutation in an active site which can be upregulated after phosphorylation by protein kinases (1). PFKFB3 may be responsible for sustaining the high glycolytic flux of rapidly proliferating leukemia cells and may represent a molecular target for chemotherapeutic intervention (2).
Product Categories/Family for PFKFB3 recombinant protein	Carbohydrate Kinases; Cancer; Cell Cycle
References	1. Sakakibara, R.et.al: Characterization of a human placental fructose-6-phosphate,2-kinase/fructose-2,6-bisphosphatase. J. Biochem. 122: 122-128, 1997. 2. Chesney, J. et.al: An inducible gene product for 6-phosphofructo-2-kinase with an AU-rich instability element: role in tumor cell glycolysis and the Warburg effect. Proc. Nat. Acad. Sci. 96: 3047-3052, 1999.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_004566
Molecular Weight	85kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/pfkfb3-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73818>