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Datasheet for 009-001-S88S

PFKFB3 protein-GST fusion

Overview

Description:	PFKFB3 recombinant protein-GST fusion protein - 009-001-S88S
Item No.:	009-001-S88S
Size:	20 µg
Origin:	Human
Expressed in:	Sf9 cells

Product Details

Background:	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). PFKFB3 Protein is ideal for investigators involved in Signaling Proteins, Fructose Kinase Proteins, Cancer, Cell Cycle, and Metabolic Disorder research.
Synonyms:	IPFK2, PFK2, ATP-dependent 6-phosphofructokinase subunit beta, ATP-dependent 6-phosphofructokinase 2, ATP-PFK 2, Phosphofructokinase 2, Phosphohexokinase 2
Species of Origin:	Human
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	PFKFB3
Purity/Specificity:	Recombinant full-length human PFKFB3 was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >95% by densitometry.
Relevant Links:	• NCBI - NM_004566

Application Details

Application Note:	PFKFB3 Protein is stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. PFKFB3 Protein is suitable for use in Western Blot. Expect a band approximately ~83kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.1 µg/µL
Buffer:	See application note.

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store product at –70°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.
Expiration:	Expiration date is one (1) year from date of receipt.

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