PI4KB recombinant protein

PI4KB, Active

CATALOG #	HOST	APPLICATIONS
AAA73067	**Sf9 insect cells using baculovirus**	**Kinase Assay**

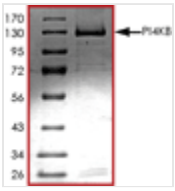
PRODUCT SYNONYMS

PI4KB; Active; PI4KB recombinant protein

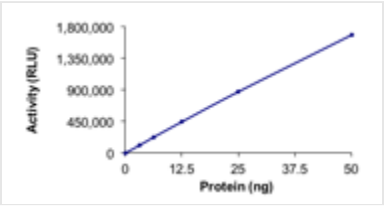
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Positions	Full length
Sequence Length	3303
Applicable Applications for PI4KB recombinant protein	Kinase Assay
Species	Human
Tag	GST tag
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



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for PI4KB recombinant protein	Description: Full-length recombinant human PI4KB was co-expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: PI4KB is a member of the phosphatidylinositol 4-kinase family (PI4K) and is the first committed step in the production of the second messenger inositol-1,4,5-trisphosphate (PIP3). PI4KB regulates the golgi disintegration/reorganization during mitosis possibly via the phosphorylation of phosphatidylinositol (1). PI4KB is a type III enzyme that is sensitive to wortmannin and is responsible for regulating the synthesis of agonist-sensitive pools of polyphosphoinositides. PI4KB is critical for glucose-induced insulin secretion due to its capacity to regulate the release of secretory granules (2). PI4KB inhibits the insulin-stimulated translocation of glucose transporter-4 in mouse adipocytes through its interaction with neuronal calcium sensor-1.

Product Categories/Family for PI4KB recombinant protein	Enzymes; Active Lipid Kinases
References	1. Balla, A. et.al: Characterization of type II phospha-tidylinositol 4-kinase isoforms reveals association of the enzymes with endosomal vesicular compartments. J. Biol. Chem. 277: 20041-20050, 2002. 2. Griffioen, M. et.al: Identification of phosphatidylinositol 4-kinase type II beta as HLA class II-restricted target in graft versus leukemia reactivity. Proc. Nat. Acad. Sci. 105: 3837-3842, 2008.

NCBI AND UNIPROT INFORMATION

NCBI GI #	33875124
NCBI GeneID	5298
Molecular Weight	~120 kDa
NCBI Official Full Name	Homo sapiens phosphatidylinositol 4-kinase, catalytic, beta, mRNA
NCBI Official Synonym Full Names	phosphatidylinositol 4-kinase beta
NCBI Official Symbol	PI4KB
NCBI Official Synonym Symbols	NPIK; PI4K92; PIK4CB; PI4KBETA; PI4K-BETA; PI4KIIIBETA
NCBI Protein Information	phosphatidylinositol 4-kinase beta
UniProt Protein Name	Phosphatidylinositol 4-kinase beta
UniProt Gene Name	**PI4KB**
UniProt Synonym Gene Names	PIK4CB; PI4K-beta; PI4Kbeta; PtdIns 4-kinase beta

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://www.aaabiotech.com/pi4kb-recombinant-protein-sf9-kinase-assay/73067