PIP5K3 recombinant protein

PIP5K3 (PIKFYVE), Active

CATALOG #	HOST	APPLICATIONS
AAA73047	**Sf9 insect cells using baculovirus**	**Kinase Assay**

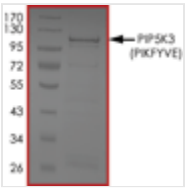
PRODUCT SYNONYMS

PIP5K3; PIP5K3 (PIKFYVE); Active; PIP5K3 recombinant protein

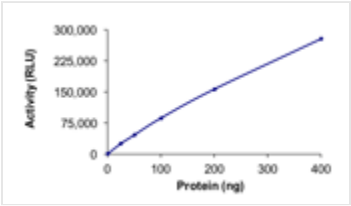
PRODUCT SPECIFICATIONS

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	1400-end
Sequence Length	9901
Applicable Applications for PIP5K3 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 PIP5K3 recombinant protein	Description: Recombinant human PIP5K3 (1400-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: PIP5K3 (also known as phosphatidylinositol-3-phosphate 5-kinase type III or PIPKIII) encodes an enzyme that phosphorylates the D-5 position in PtdIns and phospha-tidylinositol-3-phosphate (PtdIns3P) to make PtdIns5P and PtdIns (3,5)biphosphate. PIP5K3 belongs to a large family of lipid kinases that alter the phosphorylation status of intracellular phosphatidylinositol but also have protein kinase activity (1). PIP5K3 regulate cytoskeletal functions, membrane trafficking, and receptor signaling by recruiting protein complexes to cell- and endosomal-membranes. The inhibition of PIP5K3 renders the late endosome /lysosome compartment refractory to fusion with autop-hagosomes and multivesicular bodies (2).

Product Categories/Family for PIP5K3 recombinant protein	Enzymes; Active Lipid Kinases
References	1. Shisheva, A..et.al: Cloning, characterization, and expression of a novel Zn (2+)-binding FYVE finger-containing phosphor-inositide kinase in insulin-sensitive cells. Molec. Cell. Biol. 19: 623-634, 1999. 2. de Lartigue, J.et.al: PIKfyve regulation of endosome-linked pathways. Traffic 10: 883-893, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	121583482
NCBI GeneID	200576
NCBI Accession #	NM_015040.3
NCBI GenBank Nucleotide #	NM_015040
UniProt Accession #	Q9Y2I7; Q08AR7; Q08AR8; Q53ST3; Q53T36; Q8N5H0; Q8NB67
Molecular Weight	110 kDa
NCBI Official Full Name	Homo sapiens phosphoinositide kinase, FYVE-type zinc finger containing (PIKFYVE), transcript variant 2, mRNA
NCBI Official Synonym Full Names	phosphoinositide kinase, FYVE-type zinc finger containing
NCBI Official Symbol	PIKFYVE
NCBI Official Synonym Symbols	CFD; FAB1; HEL37; PIP5K; PIP5K3; ZFYVE29
NCBI Protein Information	1-phosphatidylinositol 3-phosphate 5-kinase
UniProt Protein Name	1-phosphatidylinositol 3-phosphate 5-kinase
UniProt Gene Name	**PIKFYVE**
UniProt Synonym Gene Names	KIAA0981; PIP5K3; Phosphatidylinositol 3-phosphate 5-kinase; PIPkin-III; Type III PIP kinase

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/pikfyve-recombinant-protein-sf9-kinase-assay/73047