

PIP5K1C active protein

PIP5K1C, Active

CATALOG #
AAA73045

HOST
Sf9 cells

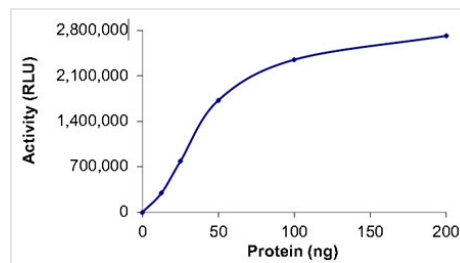
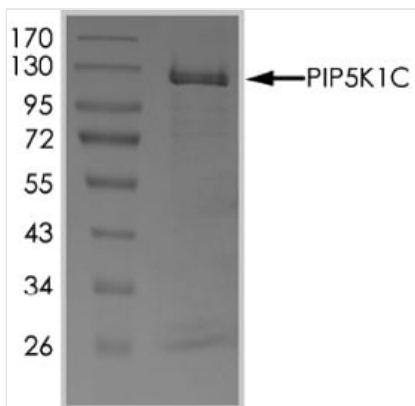
PRODUCT SYNONYMS

PIP5K1C; Active; KIAA0589; LCCS3; PIP5K-GAMMA; PIP5Kgamma; PIPKlg_v4; PIP5K1C active protein

PRODUCT SPECIFICATIONS

Host	Sf9 cells
Purity/Purification	>80%
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM, DTT, 0.1mM PMSF, and 25% glycerol.
Concentration	0.1 mg/ml (varies by lot)
Host Note	Recombinant full length human protein expressed in Sf9 cells.
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	Ships on dry ice. 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



Specific Activity

The specific activity of PIP5K1C was determined to be 6,927 nmol/min/mg as per activity assay protocol.

Purity Info

The purity of PIP5K1C was determined to be >70% by densitometry approx. MW 120 kDa.

ADDITIONAL INFORMATION

Related Product Information for PIP5K1C active protein	Description: Recombinant full-length human PIP5K1C was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: PIP5K1C or phosphatidylinositol-4-phosphate 5-kinase 1 gamma phosphorylates phosphatidylinositol-4-phosphate to form phosphatidylinositol 4,5-bisphosphate. PIP5K1C is found at synapses and has been found to play roles in endocytosis and cell migration. PIP5K1C directly associates with beta-catenin and increases beta-catenin activity downstream of growth factor stimulation (1). PIP5K1C expression and kinase activity enhance beta-catenin phosphorylation on residues that promote nuclear importation and transcriptional activity. PIP5K1C deficiency impairs neutrophil recruitment as a result of defect in adhesion. PIP5K1C regulated the adhesion through facilitating RhoA GTPase and integrin activation by chemoattractants (2).
Product Categories/Family for PIP5K1C active protein	Enzymes; Active Lipid Kinases
References	1. Schramp M. et al: PIPKIgamma regulates beta-catenin transcriptional activity downstream of growth factor receptor signaling. Cancer Res. 2011 Feb 15;71 (4):1282-91. 2. Xu W, Integrin-induced PIP5K1C kinase polarization regulates neutrophil polarization, directionality, and in vivo infiltration. Immunity. 2010 Sep 24;33 (3):340-50.

NCBI AND UNIPROT INFORMATION

NCBI GI #	307691177
NCBI GeneID	23396
NCBI Accession #	NM_012398.2
NCBI GenBank Nucleotide #	NM_012398
UniProt Accession #	O60331; Q7LE07; B7Z9E7; C6GIJ7; C6GIJ8
NCBI Official Full Name	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase type 1 gamma (PIP5K1C), transcript variant 2, mRNA
NCBI Official Synonym Full Names	phosphatidylinositol-4-phosphate 5-kinase type 1 gamma
NCBI Official Symbol	PIP5K1C
NCBI Official Synonym Symbols	LCCS3; PIP5Kgamma; PIP5K-GAMMA; PIP5K1-gamma
NCBI Protein Information	phosphatidylinositol 4-phosphate 5-kinase type-1 gamma
UniProt Protein Name	Phosphatidylinositol 4-phosphate 5-kinase type-1 gamma
UniProt Gene Name	PIP5K1C
UniProt Synonym Gene Names	KIAA0589; PIP5K1-gamma; PtdIns(4)P-5-kinase 1 gamma; PIP5KIgamma

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.