

Active Recombinant Human PIP5K1C protein, GST-tagged

Cat. No. PIP5K1C-172H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PIP5K1C fused with an N-terminal GST tag was expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	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 β -catenin and increases β -catenin activity downstream of growth factor stimulation. PIP5K1C expression and kinase activity enhance β -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.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	8150 nmol/min/mg
Molecular Mass	120 kDa
Purity	>70%

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Applications	Kinase Assay
Stability	1 year at -70 centigrade from the date of shipment
Storage	Store product at –70 centigrade. 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.
Concentration	0.05µg/µl

GENE INFORMATION

Gene Name	PIP5K1C phosphatidylinositol-4-phosphate 5-kinase, type I, gamma [Homo sapiens]
Official Symbol	PIP5K1C
Synonyms	PIP5K1C; phosphatidylinositol-4-phosphate 5-kinase, type I, gamma; phosphatidylinositol-4-phosphate 5-kinase type-1 gamma; KIAA0589; LCCS3; PIP5Kgamma; PIP5K1-gamma; type I PIP kinase; diphosphoinositide kinase; ptdIns(4)P-5-kinase 1 gamma; Human homolog of mouse phosphatidylinositol-4-phosphate 5-kinase I-gamma; PIPKlg_v4; PIP5K-GAMMA;
Gene ID	23396
mRNA Refseq	NM_012398
Protein Refseq	NP_036530
MIM	606102
UniProt ID	O60331

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Chromosome Location	19p13.3
Pathway	3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; Arf6 trafficking events, organism-specific biosystem; Axon guidance, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, conserved biosystem;
Function	1-phosphatidylinositol-4-phosphate 5-kinase activity; ATP binding; nucleotide binding; transferase activity;
	