

Active Recombinant Human PIP5K1B protein, GST-tagged

Cat. No. PIP5K1B-171H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PIP5K1B fused with an N-terminal GST tag was expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	PIP5K1B (phosphatidylinositol-4-phosphate 5-kinase, type I, beta) is a member of the phosphatidylinositol-4-phosphate 5-kinase family. PIP5K1B gene contains 17 exons and spans more than 300 kb. The seventeenth exon was found by RT-PCR, and are derived from the 3-prime untranslated region of the PRKACG gene which is located on 9q13 approximately 3 kb downstream of the STM7.I 3-prime untranslated region. The overexpression of PIP5K1B in COS-7 cells induces an increase in short actin fibers and a decrease in actin stress fibers.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	4000 nmol/min/mg
Molecular Mass	96 kDa
Purity	>70%
Applications	Kinase Assay

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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	PIP5K1B phosphatidylinositol-4-phosphate 5-kinase, type I, beta [Homo sapiens]
Official Symbol	PIP5K1B
Synonyms	PIP5K1B; phosphatidylinositol-4-phosphate 5-kinase, type I, beta; phosphatidylinositol 4-phosphate 5-kinase type-1 beta; MSS4; STM7; PIP5K1beta; PIP5K1-beta; protein STM-7; ptdIns(4)P-5-kinase 1 beta; phosphatidylinositol 4-phosphate 5-kinase type I beta; phosphatidylinositol-4-phosphate 5-kinase type-1 beta; type I phosphatidylinositol 4-phosphate 5-kinase beta; type I phosphatidylinositol-4-phosphate 5-kinase beta;
Gene ID	8395
mRNA Refseq	NM_003558
Protein Refseq	NP_003549
MIM	602745
UniProt ID	O14986

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Chromosome Location	9q13
Pathway	3-phosphoinositide biosynthesis, organism-specific biosystem; 3-phosphoinositide biosynthesis, conserved biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; Canonical Wnt 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; Endocytosis, organism-specific biosystem;
Function	1-phosphatidylinositol-4-phosphate 5-kinase activity; ATP binding; nucleotide binding; protein binding; transferase activity;
	