

Active Recombinant Human PIP5K1B, GST-tagged

Cat. No. PIP5K1B-1461H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PIP5K1B was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
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 STM7.1 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(2).
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	220 nmol/min/mg
Molecular Mass	~96 kDa
Purity	>70%

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Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/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
Chromosome	9q13

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Location	
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;

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