

## Active Recombinant Human PIP5K1B, GST-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human PIP5K1B was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	Full length
<b>Description</b>	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(2).
<b>Form</b>	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.
<b>Bio-activity</b>	220 nmol/min/mg
<b>Molecular Mass</b>	~96 kDa
<b>Purity</b>	>70%

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<b>Applications</b>	Kinase Assay, Western Blot
<b>Storage</b>	Store at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.1 $\mu\text{g}/\mu\text{l}$
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PIP5K1B phosphatidylinositol-4-phosphate 5-kinase, type I, beta [ Homo sapiens ]
<b>Official Symbol</b>	PIP5K1B
<b>Synonyms</b>	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;
<b>Gene ID</b>	8395
<b>mRNA Refseq</b>	NM_003558
<b>Protein Refseq</b>	NP_003549
<b>MIM</b>	602745
<b>UniProt ID</b>	O14986
<b>Chromosome</b>	9q13

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<b>Location</b>	
<b>Pathway</b>	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;
<b>Function</b>	1-phosphatidylinositol-4-phosphate 5-kinase activity; ATP binding; nucleotide binding; protein binding; transferase activity;

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