

## Recombinant Mouse Pip5k1b Protein, Myc/DDK-tagged

Cat. No. Pip5k1b-4874M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length phosphatidylinositol-4-phosphate 5-kinase, type 1 beta (cDNA clone MGC:41200 IMAGE:3326897), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	Catalyzes the phosphorylation of phosphatidylinositol 4-phosphate (PtdIns4P/PI4P) to form phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2/PIP2), a lipid second messenger that regulates several cellular processes such as signal transduction, vesicle trafficking, actin cytoskeleton dynamics, cell adhesion, and cell motility. PtdIns(4,5)P2 can directly act as a second messenger or can be utilized as a precursor to generate other second messengers: inositol 1,4,5-trisphosphate (IP3), diacylglycerol (DAG) or phosphatidylinositol-3,4,5-trisphosphate (PtdIns(3,4,5)P3/PIP3). Mediates RAC1-dependent reorganization of actin filaments. Contributes to the activation of phospholipase PLD2. Together with PIP5K1A, is required, after stimulation by G-protein coupled receptors, for the synthesis of IP3 that will induce stable platelet adhesion.
<b>Molecular Mass</b>	55.1 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	Pip5k1b phosphatidylinositol-4-phosphate 5-kinase, type 1 beta [ Mus musculus (house mouse) ]
<b>Official Symbol</b>	Pip5k1b
<b>Synonyms</b>	Pip5k1b; phosphatidylinositol-4-phosphate 5-kinase, type 1 beta; Pip; STM7; Pipk5b; PIP5KIbeta; PI4P5K-I[b]; PIP5K1-beta; phosphatidylinositol 4-phosphate 5-kinase type-1 beta; 68 kDa type I phosphatidylinositol 4-phosphate 5-kinase beta; PIP5KI-beta; phosphatidylinositol 4-phosphate 5-kinase type I beta; ptdIns(4)P-5-kinase 1 beta; EC 2.7.1.68
<b>Gene ID</b>	18719
<b>mRNA Refseq</b>	NM_008846
<b>Protein Refseq</b>	NP_032872
<b>UniProt ID</b>	P70181

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