Recombinant Mouse Pip5k1b Protein, Myc/DDK-tagged

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	HEK293
Description	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.
Molecular Mass	55.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Pip5k1b phosphatidylinositol-4-phosphate 5-kinase, type 1 beta [Mus musculus (house mouse)]
Official Symbol	Pip5k1b
Synonyms	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
Gene ID	18719
mRNA Refseq	NM_008846
Protein Refseq	NP_032872
UniProt ID	P70181

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA