

Recombinant Mouse Pip4k2a Protein, Myc/DDK-tagged

Cat. No. Pip4k2a-4873M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length phosphatidylinositol-5-phosphate 4-kinase, type II, alpha (Pip4k2a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Catalyzes the phosphorylation of phosphatidylinositol 5-phosphate (PtdIns5P) on the fourth hydroxyl of the myo-inositol ring, to form phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P ₂). Has both ATP- and GTP-dependent kinase activities. May exert its function by regulating the levels of PtdIns5P, which functions in the cytosol by increasing AKT activity and in the nucleus signals through ING2. May regulate the pool of cytosolic PtdIns5P in response to the activation of tyrosine phosphorylation. May be involved in thrombopoiesis, and the terminal maturation of megakaryocytes and regulation of their size May negatively regulate insulin-stimulated glucose uptake by lowering the levels of PtdIns5P.
Molecular Mass	46.2 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	Pip4k2a phosphatidylinositol-5-phosphate 4-kinase, type II, alpha [Mus musculus (house mouse)]
Official Symbol	Pip4k2a
Synonyms	PIP4K2A; phosphatidylinositol-5-phosphate 4-kinase, type II, alpha; phosphatidylinositol-5-phosphate 4-kinase type-2 alpha; PIP4KII-alpha; PI(5)P 4-kinase type II alpha; diphosphoinositide kinase 2-alpha; ptdIns(5)P-4-kinase isoform 2-alpha; 1-phosphatidylinositol-5-phosphate 4-kinase 2-alpha; phosphatidylinositol-4-phosphate 5-kinase, type II, alpha; Pip5k2a; AW742916
Gene ID	18718
mRNA Refseq	NM_008845
Protein Refseq	NP_032871
UniProt ID	O70172

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