

Recombinant Human PIP4K2A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PIP4K2A-1563H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PIP4K2A MS Standard C13 and N15-labeled recombinant protein (NP_005019) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Phosphatidylinositol-5,4-bisphosphate, the precursor to second messengers of the phosphoinositide signal transduction pathways, is thought to be involved in the regulation of secretion, cell proliferation, differentiation, and motility. The protein encoded by this gene is one of a family of enzymes capable of catalyzing the phosphorylation of phosphatidylinositol-5-phosphate on the fourth hydroxyl of the myo-inositol ring to form phosphatidylinositol-5,4-bisphosphate. The amino acid sequence of this enzyme does not show homology to other kinases, but the recombinant protein does exhibit kinase activity. This gene is a member of the phosphatidylinositol-5-phosphate 4-kinase family.
Molecular Mass	46.2 kDa
AA Sequence	MATPGNLGSSVLASKTKTKKKHFVAQKVKLFRASDPLLSVLMWGVNHSINELSHVQIPVMLMPDDFKAYSKIKVDNHLFNKENMPSHFKFKEYCPMVFRNLRERFGIDDQDFQNSLTRSAPLPNDSQARSGARFHTSYDKRYIIKTITSEDVAEMHNILKKYHQYIVECHGITLLPQFLGMYRLNVDGVEIYVIVTRNVFSHRLSVYRKYDLKGSTVAREASDKEKAKE

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LPTLKDNDFINEGQKIYIDDNNKKVFLEKLKKDVEFLAQLKMDYSLLVGIHDVERAEQ
 EEVECEEENDGEEEGESDGTHTPVGTTPDSPGNTLNSSPPLAPGEFDPNIDVYGIKCH
 ENSPRKEVYFMAIIDILTHYDAKKKAAHAAKTVKHGAGAEISTVNPEQYSKRFLDFIG
 HILTTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PIP4K2A phosphatidylinositol-5-phosphate 4-kinase type 2 alpha [Homo sapiens (human)]

Official Symbol PIP4K2A

Synonyms PIP4K2A; phosphatidylinositol-5-phosphate 4-kinase, type II, alpha; phosphatidylinositol 4 phosphate 5 kinase, type II, alpha, PIP5K2A; phosphatidylinositol-5-phosphate 4-kinase type-2 alpha; PIP5KIIA; PIP5KIIalpha; PIP5KIII; PIP4KII-alpha; PI(5)P 4-kinase type II alpha; PtdIns(4)P-5-kinase B isoform; ptdIns(4)P-5-kinase C isoform; diphosphoinositide kinase 2-alpha; ptdIns(5)P-4-kinase isoform 2-alpha; 1-phosphatidylinositol-4-phosphate kinase; 1-phosphatidylinositol-4-phosphate-5-kinase; 1-phosphatidylinositol-5-phosphate 4-kinase 2-alpha; phosphatidylinositol-4-phosphate 5-kinase, type II, alpha; type II

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phosphatidylinositol-4-phosphate 5-kinase 53 K isoform; PIPK; PI5P4KA; PIP5K2A; FLJ13267; PIP5KII-alpha;

Gene ID 5305

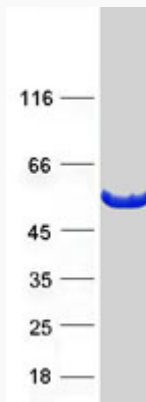
mRNA Refseq NM_005028

Protein Refseq NP_005019

MIM 603140

UniProt ID P48426

SDS-PAGE



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