

## **Product datasheet for TP727248**

## OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

## PIP5K2 alpha (PIP4K2A) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant Human Phosphatidylinositol 5-Phosphate 4-Kinase 2α/PIP4K2A (C-6His)

Species: Human

**Expression cDNA Clone** 

or AA Sequence:

Met1-Thr406

Tag: C-His

Buffer: Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

**Note:** Recombinant Human Phosphatidylinositol 5-phosphate 4-kinase type-2 alpha is produced by

our Mammalian expression system and the target gene encoding Met1-Thr406 is expressed

with a 6His tag at the C-terminus.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3

weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

**Stability:** 12 months from date of despatch

**Locus ID:** 5305 **UniProt ID:** P48426

Synonyms: 1-phosphatidylinositol 5-phosphate 4-kinase 2-alpha;Diphosphoinositide kinase 2-

alpha;PIP5KIII;Phosphatidylinositol 5-phosphate 4-kinase type II alpha;Ptdlns(4)P-5-kinase B

isoform;PtdIns(4)P-5-kinase C isoform;PtdIns(5)P-4-kinase isoform 2-alpha

**Summary:** Phosphatidylinositol 5-phosphate 4-kinase type-2 alpha (PIP4K2A) is a member of the

phosphatidylinositol-4-phosphate 5-kinase family. It contains 1 PIPK domain and is expressed ubiquitously, with high levels in the brain. It 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)P2). It 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. It may regulate the pool of cytosolic PtdIns5P in

response to the activation of tyrosine phosphorylation, negatively regulate insulin-stimulated glucose uptake by lowering the levels of PtdIns5P. It also involved in thrombopoiesis, and the

terminal maturation of megakaryocytes and regulation of their size.





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**Protein Families:** Druggable Genome

**Protein Pathways:** Inositol phosphate metabolism, Phosphatidylinositol signaling system, Regulation of actin

cytoskeleton