

## 32-8511: Recombinant Human Phosphatidylinositol 5-Phosphate 4-Kinase 2a/PIP4K2A (C-6His)

**Gene :** PIP4K2A

**Gene ID :** 5305

**Uniprot ID :** P48426

### Description

Source: Human Cells.

MW :47.3kD.

Recombinant Human PIP4K2A is produced by our Mammalian expression system and the target gene encoding Met1-Thr406 is expressed with a 6His tag at the C-terminus. 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)P<sub>2</sub>). 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.

### Product Info

**Amount :** 10 µg / 50 µg

**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.

**Storage condition :** 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.

**Amino Acid :** MATPGNLGSSVLASKTKTKKKHFVAQKVKLFRASDPLLSVLMWGVNHSINELSHVQIPVMLMPDDFKAYSKIKV  
DNHLFNKENMPSHFKEKEYCPMVFRLRERFGIDDQDFQNSLTRSAPLPNDSQARSGARFHTSYDKRYIIKTITS  
EDVAEMHNILKKYHQYIVECHGITLLPQFLGMYRLNVDGVEIYVIVTRNVFSHRLSVYRKYDLKGSTVAREASDK  
EKAKELPTLKDNDFINEGQKIYIDDNNKKVFLEKLLKDVFLAQLKMDYSLLVGIHDVERAEQEEVECEENDGE  
EEGESDGTHPVGTTPDSPGNTLNSSPPLAPGEFDPNIDVYGIKCHENS PRKEVYFMAIIDILTHYDAKKKAAHAA  
KTVKHGAGAEISTVNPEQYSKRFLDFIGHILTVDHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.