

# Recombinant Human PIP4K2A Protein (His Tag)

Catalog Number:PKSH032888



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

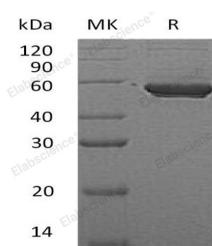
## Description

<b>Synonyms</b>	1-phosphatidylinositol 5-phosphate 4-kinase 2-alpha;Diphosphoinositide kinase 2-alpha;PIP5KIII;Phosphatidylinositol 5-phosphate 4-kinase type II alpha;PtdIns(4)P-5-kinase B isoform;PtdIns(4)P-5-kinase C isoform;PtdIns(5)P-4-kinase isoform 2-alpha
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met 1-Thr406
<b>Accession</b>	P48426
<b>Calculated Molecular Weight</b>	47.3 kDa
<b>Observed molecular weight</b>	52-58 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

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

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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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