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Recombinant Human PIP4K2A Protein (His Tag)

Catalog No. PKSH032888

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

Description

Synonyms 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

Species Human

Expression Host HEK293 Cells
Sequence Met 1-Thr406

AccessionP48426Calculated Molecular Weight47.3 kDaObserved molecular weight52-58 kDaTagC-His

Bioactivity Not validated for activity

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage 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.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

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

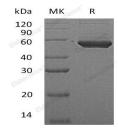
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

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Email: techsupport@elabscience.com





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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)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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