

PIP4K2C Protein, Human

Cat. No.:	HY-P701750
Synonyms:	PIP4K2C; Phosphatidylinositol 5-phosphate 4-kinase type-2 gamma; Phosphatidylinositol 5-phosphate 4-kinase type II gamma; PI(5)P 4-kinase type II gamma; PIP4KII-gamma
Species:	Human
Source:	E. coli
Accession:	Q8TBX8 (A2-A421)
Gene ID:	79837
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	PIP4K2C Protein, a phosphatidylinositol 5-phosphate 4-kinase, exhibits low enzymatic activity and is proposed to function as a GTP sensor, displaying higher GTP-dependent kinase activity compared to ATP-dependent kinase activity. Beyond its catalytic role, PIP4K2C, like other PIP4Ks, plays a significant role in negatively regulating insulin signaling through a catalytic-independent mechanism. This involves the interaction with PIP5Ks, leading to the suppression of PIP5K-mediated phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P ₂) synthesis and inhibiting the insulin-dependent conversion to phosphatidylinositol 3,4,5-trisphosphate (PtdIns(3,4,5)P ₃). These regulatory actions underscore the intricate involvement of PIP4K2C in cellular processes related to insulin signaling and lipid metabolism.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA