

Bioactive

Full-Length

PIP4K2B (Human) Recombinant Protein

Catalog # P6572

Size 5 ug

Applications

Result of activity analysis

Result of activity analysis

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Specification

Product Description	Human PIP4K2B (NP_003550, 1 a.a. - 416 a.a.) full length recombinant protein with GST-tag at N-terminal using baculovirus expression system.
Host	Viruses
Form	Liquid
Preparation Method	Baculovirus expression system.
Purification	Glutathione sepharose chromatography.
Purity	0.95
Activity	The activity was determined by ADP-Glo Assay. The enzyme was incubated with Lipid substrate and Mn/ATP. The phosphorylation was detected by the ADP-Glo Kinase Assay technology (luminescent ADP detection assay). Substrate: PI (5) P and Phosphatidylserine, ATP: 100 uM.
Quality Control Testing	The purity was assessed by SDS-PAGE/CBB staining.
Storage Buffer	50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5
Storage Instruction	Stored at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Result of activity analysis
Result of activity analysis

Applications

- Functional Study

Gene Info — PIP4K2B

Entrez GeneID	8396
Protein Accession#	NP_003550
Gene Name	PIP4K2B
Gene Alias	PI5P4KB, PIP5K2B, PIP5KIIB, PIP5KIIBeta
Gene Description	phosphatidylinositol-5-phosphate 4-kinase, type II, beta
Omim ID	603261
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene catalyzes the phosphorylation of phosphatidylinositol-5-phosphate on the fourth hydroxyl of the myo-inositol ring to form phosphatidylinositol-5,4-bisphosphate. This gene is a member of the phosphatidylinositol-5-phosphate 4-kinase family. The encoded protein sequence does not show similarity to other kinases, but the protein does exhibit kinase activity. Additionally, the encoded protein interacts with p55 TNF receptor. [provided by RefSeq]
Other Designations	1-phosphatidylinositol-4-phosphate kinase PTDINS(4)P-5-kinase diphosphoinositide kinase phosphatidylinositol-4-phosphate 5-kinase, type II, beta

Pathway

- [Endocytosis](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Inositol phosphate metabolism](#)
- [Metabolic pathways](#)
- [Phosphatidylinositol signaling system](#)

- [Regulation of actin cytoskeleton](#)

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Diabetes Complications](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)