

Active Recombinant Human PIP4K2C protein, GST-tagged

Cat. No. PIP4K2C-169H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PIP4K2C fused with an N-terminal GST tag was expressed in Insect cells.
Species	Human
Source	Insect Cells
Description	PIP4K2C (also known as phosphatidylinositol-5-phosphate 4-kinase, type II, gamma) is a member of the PIP kinase family that plays an important role in a wide variety of cell functions. PIP4K2C is found in the cytosol and surrounding plasma membrane and its presence in the endoplasmic reticulum seems to be a prerequisite for PIP2 synthesis. PIP4K2C play an important role in the production of phosphatidylinositol bisphosphate (PIP2) in the endoplasmic reticulum.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	88 nmol/min/mg
Molecular Mass	75 kDa
Purity	>90%
Applications	Kinase Assay

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Stability	1 year at -70 centigrade from the date of shipment
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	PIP4K2C phosphatidylinositol-5-phosphate 4-kinase, type II, gamma [Homo sapiens]
Official Symbol	PIP4K2C
Synonyms	PIP4K2C; phosphatidylinositol-5-phosphate 4-kinase, type II, gamma; phosphatidylinositol 4 phosphate 5 kinase, type II, gamma , PIP5K2C; phosphatidylinositol-5-phosphate 4-kinase type-2 gamma; FLJ22055; PIP4KII-gamma; PI(5)P 4-kinase type II gamma; phosphatidylinositol 4-phosphate 5-kinase; phosphatidylinositol-4-phosphate 5-kinase, type II, gamma; PIP5K2C;
Gene ID	79837
mRNA Refseq	NM_001146258
Protein Refseq	NP_001139730
UniProt ID	Q8TBX8
Chromosome Location	12q13.2

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Pathway

B Cell Receptor Signaling Pathway, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate biosynthesis, organism-specific biosystem; D-myo-inositol-5-phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Phosphatidylinositol signaling system, organism-specific biosystem; Phosphatidylinositol signaling system, conserved biosystem;

Function

1-phosphatidylinositol-5-phosphate 4-kinase activity; ATP binding; identical protein binding; nucleotide binding; transferase activity;

