

PIP4K2C Blocking Peptide (N-term)
Synthetic peptide
Catalog # BP20635a**Specification**

PIP4K2C Blocking Peptide (N-term) - Product Information

Primary Accession [Q8TBX8](#)
Other Accession [O88370](#), [Q91XU3](#), [Q0P5F7](#)

PIP4K2C Blocking Peptide (N-term) - Additional Information

Gene ID 79837

Other Names

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, PIP4K2C, PIP5K2C

Target/Specificity

The synthetic peptide sequence is selected from aa 23-37 of HUMAN PIP4K2C

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PIP4K2C Blocking Peptide (N-term) - Protein Information

Name PIP4K2C ([HGNC:23786](#))

Synonyms PIP5K2C

Function

Phosphatidylinositol 5-phosphate 4-kinase with low enzymatic activity. May be a GTP sensor, has higher GTP-dependent kinase activity than ATP-dependent kinase activity. PIP4Ks negatively regulate insulin signaling through a catalytic-independent mechanism. They interact with PIP5Ks and suppress PIP5K-mediated PtdIns(4,5)P₂ synthesis and insulin- dependent conversion to PtdIns(3,4,5)P₃ (PubMed:31091439).

Cellular Location

Endoplasmic reticulum {ECO:0000250|UniProtKB:O88370}. Cytoplasm {ECO:0000250|UniProtKB:O88370}

PIP4K2C Blocking Peptide (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

PIP4K2C Blocking Peptide (N-term) - Images

PIP4K2C Blocking Peptide (N-term) - Background

May play an important role in the production of Phosphatidylinositol bisphosphate (PIP2), in the endoplasmic reticulum (By similarity).

PIP4K2C Blocking Peptide (N-term) - References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Scherer S.E.,et al.Nature 440:346-351(2006).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Daub H.,et al.Mol. Cell 31:438-448(2008).
Gauci S.,et al.Anal. Chem. 81:4493-4501(2009).