

PIP4K2C Blocking Peptide (N-term)

Synthetic peptide

Catalog # BP20635a

Specification

PIP4K2C Blocking Peptide (N-term) - Product Information

Primary Accession

[O8TBX8](#)

Other Accession

[O88370](#), [O91XU3](#), [O0P5F7](#)**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 InformationName PIP4K2C ([HGNC:23786](#))

Synonyms PIP5K2C

FunctionPhosphatidylinositol 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: <http://www.uniprot.org/citations/31091439> target="_blank">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).