

PIP4K2C Blocking Peptide (N-term)

Synthetic peptide

Catalog # BP20635a

Specification**PIP4K2C Blocking Peptide (N-term) - Product Information**

Primary Accession [Q8TBX8](#)
Other Accession [Q88370](#), [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**PIP4K2C Blocking Peptide (N-term) - Background**

May play an important role in the production
of Phosphatidylinositol biphosphate (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).

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](#)