

CDKN3 Blocking Peptide (N-term)

Synthetic peptide

Catalog # BP20057A

Specification

CDKN3 Blocking Peptide (N-term) - Product Information

Primary Accession

[O16667](#)

Other Accession

[NP_005183.2](#)**CDKN3 Blocking Peptide (N-term) - Additional Information**

Gene ID 1033

Other Names

Cyclin-dependent kinase inhibitor 3, CDK2-associated dual-specificity phosphatase, Cyclin-dependent kinase interactor 1, Cyclin-dependent kinase-interacting protein 2, Kinase-associated phosphatase, CDKN3, CDI1, CIP2, KAP

Target/Specificity

The synthetic peptide sequence is selected from aa 54-68 of HUMAN CDKN3

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.

CDKN3 Blocking Peptide (N-term) - Protein InformationName CDKN3 ([HGNC:1791](#))

Synonyms CDI1, CIP2, KAP

Function

May play a role in cell cycle regulation. Dual specificity CC phosphatase active toward substrates containing either phosphotyrosine or phosphoserine residues (PubMed:8127873, PubMed:8242750). Dephosphorylates CDK2 at 'Thr-160' in a cyclin-dependent manner (PubMed:7569954).

Cellular Location

Cytoplasm, perinuclear region

CDKN3 Blocking Peptide (N-term) - Protocols

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

- [Blocking Peptides](#)

CDKN3 Blocking Peptide (N-term) - Images

CDKN3 Blocking Peptide (N-term) - Background

The protein encoded by this gene belongs to the dual specificity protein phosphatase family. It was identified as a cyclin-dependent kinase inhibitor, and has been shown to interact with, and dephosphorylate CDK2 kinase, thus prevent the activation of CDK2 kinase. This gene was reported to be deleted, mutated, or overexpressed in several kinds of cancers. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

CDKN3 Blocking Peptide (N-term) - References

Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)
Jiang, R., et al. Int. J. Cancer 126(5):1263-1274(2010)
Okamoto, K., et al. Biochem. Biophys. Res. Commun. 351(1):216-222(2006)
Hsieh, M.J., et al. Biochem. Biophys. Res. Commun. 349(2):573-581(2006)
Chinami, M., et al. J. Biol. Chem. 280(17):17235-17242(2005)