10320 Camino Santa Fe, Suite G
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p21Cip1-T57 Phospho Peptide
Synthetic Peptide
Catalog # SP2037a

Specification

p21Cip1-T57 Phospho Peptide - Product Information

Primary Accession	O19002
Other Accession	P38936
Sequence	**CNFDFVTE(pT)PLEGDFA**

p21Cip1-T57 Phospho Peptide - Additional Information

Gene ID 493943

Other Names
Cyclin-dependent kinase inhibitor 1, CDK-interacting protein 1, p21, CDKN1A, CIP1, WAF1

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.

p21Cip1-T57 Phospho Peptide - Protein Information

Name CDKN1A

Synonyms CIP1, WAF1

Function
May be involved in p53/TP53 mediated inhibition of cellular proliferation in response to DNA damage (By similarity). Binds to and inhibits cyclin-dependent kinase activity, preventing phosphorylation of critical cyclin-dependent kinase substrates and blocking cell cycle progression (By similarity). Functions in the nuclear localization and assembly of cyclin D-CDK4 complex and promotes its kinase activity towards RB1 (By similarity). At higher stoichiometric ratios, inhibits the kinase activity of the cyclin D-CDK4 complex (By similarity). Inhibits DNA synthesis by DNA polymerase delta by competing with POLD3 for PCNA binding (By similarity). Plays an important role in controlling cell cycle progression and DNA damage-induced G2 arrest (By similarity). Negatively regulates the CDK4- and CDK6-driven phosphorylation of RB1 in keratinocytes, thereby resulting in the release of E2F1 and subsequent transcription of E2F1-driven G1/S phase promoting genes (By similarity).

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:P38936}. Nucleus {ECO:0000250|UniProtKB:P38936}

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p21Cip1-T57 Phospho Peptide - Images