

p21Cip1-T145 Phospho Peptide
Synthetic Peptide
Catalog # SP2035a**Specification**

p21Cip1-T145 Phospho Peptide - Product Information

Primary Accession	O19002
Other Accession	P38936
Sequence	CQGRKRRQ(pT)SMTDFYH

p21Cip1-T145 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-T145 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).

Cellular Location

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

p21Cip1-T145 Phospho Peptide - Images