

## p21Cip1-T145 Non-phospho Control Peptide

Synthetic Peptide Catalog # SP2035c

### **Specification**

## p21Cip1-T145 Non-phospho Control Peptide - Product Information

Primary Accession

Sequence CGDSQGRKRRQTSMTDFYHSKRR

# p21Cip1-T145 Non-phospho Control Peptide - Additional Information

**Gene ID 1026** 

#### **Other Names**

Cyclin-dependent kinase inhibitor 1, CDK-interacting protein 1, Melanoma differentiation-associated protein 6, MDA-6, p21, CDKN1A, CAP20, CDKN1, CIP1, MDA6, PIC1, SDI1, WAF1

P38936

#### **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 Non-phospho Control Peptide - Protein Information

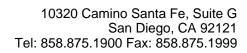
Name CDKN1A (HGNC:1784)

### **Function**

Plays an important role in controlling cell cycle progression and DNA damage-induced G2 arrest (PubMed:<a href="http://www.uniprot.org/citations/9106657" target="\_blank">9106657</a>). Involved in p53/TP53 mediated inhibition of cellular proliferation in response to DNA damage. Also involved in p53-independent DNA damage-induced G2 arrest mediated by CREB3L1 in astrocytes and osteoblasts (By similarity). Binds to and inhibits cyclin-dependent kinase activity, preventing phosphorylation of critical cyclin-dependent kinase substrates and blocking cell cycle progression. Functions in the nuclear localization and assembly of cyclin D-CDK4 complex and promotes its kinase activity towards RB1. At higher stoichiometric ratios, inhibits the kinase activity of the cyclin D-CDK4 complex. Inhibits DNA synthesis by DNA polymerase delta by competing with POLD3 for PCNA binding (PubMed:<a href="http://www.uniprot.org/citations/11595739" target="blank">11595739</a>/a>).

# **Cellular Location**

Cytoplasm. Nucleus





**Tissue Location** 

Expressed in all adult tissues, with 5-fold lower levels observed in the brain

p21Cip1-T145 Non-phospho Control Peptide - Images