

**p27Kip1-S178 Phospho Peptide**  
**Synthetic Peptide**  
**Catalog # SP2010a****Specification**

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**p27Kip1-S178 Phospho Peptide - Product Information**

Primary Accession	<a href="#">O19001</a>
Other Accession	<a href="#">Q6SLL5</a> , <a href="#">P46527</a>
Sequence	<b>CEENVSDG(pS)PNAGSVE</b>

**p27Kip1-S178 Phospho Peptide - Additional Information****Gene ID** 493958**Other Names**

Cyclin-dependent kinase inhibitor 1B, Cyclin-dependent kinase inhibitor p27, p27Kip1, CDKN1B, KIP1

**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.

**p27Kip1-S178 Phospho Peptide - Protein Information****Name** CDKN1B**Synonyms** KIP1**Function**

Important regulator of cell cycle progression. Inhibits the kinase activity of CDK2 bound to cyclin A, but has little inhibitory activity on CDK2 bound to SPDYA. Involved in G1 arrest. Potent inhibitor of cyclin E- and cyclin A-CDK2 complexes. Forms a complex with cyclin type D-CDK4 complexes and is involved in the assembly, stability, and modulation of CCND1-CDK4 complex activation. Acts either as an inhibitor or an activator of cyclin type D-CDK4 complexes depending on its phosphorylation state and/or stoichiometry.

**Cellular Location**

Nucleus. Cytoplasm. Endosome. Note=Nuclear and cytoplasmic in quiescent cells. AKT- or RSK-mediated phosphorylation on Thr-198, binds 14-3-3, translocates to the cytoplasm and promotes cell cycle progression Mitogen-activated UHMK1 phosphorylation on Ser-10 also results in translocation to the cytoplasm and cell cycle progression Phosphorylation on Ser-10 facilitates nuclear export. Translocates to the nucleus on phosphorylation of Tyr-88 and Tyr-89 (By similarity)

Colocalizes at the endosome with SNX6; this leads to lysosomal degradation (By similarity).

**p27Kip1-S178 Phospho Peptide - Images**