

**Product:** p21 WAF1 Protein, human, recombinant  
**Catalog #:** 12-4403  
**Amount:** 2 µg

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**DESCRIPTION:** Recombinant full length human p21 WAF1 (rHup21)  
p21WAF1/Cip1/Sdi1/Pic1 is a tumor suppressor protein. Expression of p21WAF1 is induced by wild type, but not mutant, p53 suppressor protein. The p21WAF1 protein binds to cyclin/CDK complexes and inhibits their kinase activity thereby stopping cell cycle progression. Meanwhile, the p21WAF1 protein also binds to PCNA (proliferating cell nuclear antigen) and blocks DNA replication but not the DNA repair process. Evidently, inactivation of p53 disrupts the p53-dependent expression of p21WAF1. p21WAF1 is a tumor suppressor involved in the pathogenesis of a variety of malignancies.  
Molecular Weight: 47 kDa

**SOURCE:** *Escherichia coli*

**FORM:** Purified, in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.

**APPLICATION:** ELISA  
Immunoblotting (western)  
Inhibition Assays

**STORAGE:** -20°C (aliquot), avoid freezing and thawing cycles

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