

**Recombinant Human Cyclin-Dependent Kinase Inhibitor 1/CDKN1A/p21 Protein(C-6His)**

**Cat.NO.: TP05811**

3th Edition

**Synonyms:**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

**Description:**Cyclin-Dependent Kinase Inhibitor 1 (CDKN1A) is a member of the CDI family. CDKN1A is widely expressed in all adult tissues, but low expressed in the brain tissue. CDKN1A can be induced by p53/TP53, mezerein and IFNB1, repressed by HDAC1. CDKN1A may be an important intermediate, by which p53/TP53 mediates its role as an inhibitor of cellular proliferation in response to DNA damage, CDKN1A can bind to and inhibit cyclin-dependent kinase activity, preventing phosphorylation of critical cyclin-dependent kinase substrates and blocking cell cycle progression.

**Form:**PBS

**Molecular Weight:**19.3 kDa

**Sequences:**Ser2-Pro164

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.