

p21CIP1 recombinant protein

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CATALOG #
AAA72913

APPLICATIONS
Western Blot

PRODUCT SYNONYMS

p21CIP1; p21CIP1 recombinant protein; CDKN1A; P21; SDI1; WAF1; CAP20; CDKN1; MDA-6

PRODUCT SPECIFICATIONS

Purity/Purification	>80%
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol
Concentration	0.2 ug/ul (varies by lot)
Sequence Length	2175
Applicable Applications for p21CIP1 recombinant protein	WB (Western Blot), Kinase Assay
Scientific Background	CIP 1 (Cyclin-Dependent Kinase Inhibitor 1A) regulates cell cycle progression, terminal differentiation, and apoptosis (1). CIP1 was shown to be induced by p53 and to be a potent inhibitor of cyclin-dependent kinase (CDK) activity. DNA damage leads to increased expression of CIP1 in cyclin E-containing complexes and to an associated decrease in cyclin-dependent kinase activity. CIP1 is a critical downstream effector in the p53-specific pathway of growth control in mammalian cells (2).
Expression System	E.coli
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on dry ice.

IMAGES



SDS-PAGE

The purity was determined to be >80% by densitometry. Approx. MW 46kDa

ADDITIONAL INFORMATION

Related Product Information for p21CIP1 recombinant protein	Recombinant full-length human p21CIP1 was expressed in E. coli cells using a N-terminal GST tag. Scientific Background: CIP 1 (Cyclin-Dependent Kinase Inhibitor 1A) regulates cell cycle progression, terminal differentiation, and apoptosis (1). CIP1 was shown to be induced by p53 and to be a potent inhibitor of cyclin-dependent kinase (CDK) activity. DNA damage leads to increased expression of CIP1 in cyclin E-containing complexes and to an associated decrease in cyclin-dependent kinase activity. CIP1 is a critical downstream effector in the p53-specific pathway of growth control in mammalian cells (2).
Product Categories/Family for p21CIP1 recombinant protein	Cell Cycle Proteins; Signaling Proteins - Cell Cycle Proteins
References	1. el-Deiry, W S. et al: WAF1/CIP1 is induced in p53-mediated G1 arrest and apoptosis. Cancer Res. 1994;54(5):1169-74 2. Wagner, M. et al: Cyclin-dependent kinase-inhibitor 1 (CDKN1A) in the squamous epithelium of the oropharynx: possible implications of molecular biology and compartmentation. Anticancer Res. 2001; 21(1A):333-45.

NCBI AND UNIPROT INFORMATION

NCBI GI #	310832422
NCBI GeneID	1026
NCBI Accession #	NP_000380.1
NCBI GenBank Nucleotide #	NM_000389
UniProt Accession #	P38936; Q14010; Q9BUT4
Molecular Weight	~46 kDa
NCBI Official Full Name	Homo sapiens cyclin-dependent kinase inhibitor 1A (p21, Cip1) (CDKN1A), transcript variant 1, mRNA
NCBI Official Synonym Full Names	cyclin-dependent kinase inhibitor 1A (p21, Cip1)
NCBI Official Symbol	CDKN1A
NCBI Official Synonym Symbols	P21; CIP1; SDI1; WAF1; CAP20; CDKN1; MDA-6; p21CIP1
NCBI Protein Information	cyclin-dependent kinase inhibitor 1; DNA synthesis inhibitor; CDK-interacting protein 1; CDK-interaction protein 1; wild-type p53-activated fragment 1; melanoma differentiation associated protein 6
UniProt Protein Name	Cyclin-dependent kinase inhibitor 1
UniProt Gene Name	CDKN1A
UniProt Synonym Gene Names	CAP20; CDKN1; CIP1; MDA6; PIC1; SDI1; WAF1; MDA-6
UniProt Entry Name	CDN1A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cdkn1a-recombinant-protein-wb-western-blot-kinase-assay/72913>