

# Recombinant Human Cyclin-Dependent Kinase Inhibitor 1A, GST-tagged

**Cat. No.** CDKN1A-4837H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full-length human CDKN1A was expressed in E. coli cells using a N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	CDKN1A (Cyclin-Dependent Kinase Inhibitor 1A) regulates cell cycle progression, terminal differentiation, and apoptosis. CDKN1A 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 CDKN1A in cyclin E-containing complexes and to an associated decrease in cyclin-dependent kinase activity. CDKN1A is a critical downstream effector in the p53-specific pathway of growth control in mammalian cells.
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	46 kDa
<b>Form</b>	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
<b>Specific Activity</b>	E. coli

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

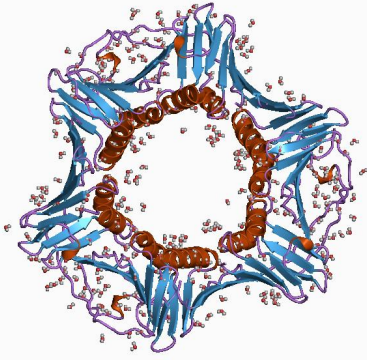
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<b>Purity</b>	> 80 %
<b>Concentration</b>	0.2 ug/ul
<b>Sequences</b>	Full-length
<b>Storage</b>	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Pathways</b>	AKT phosphorylates targets in the cytosol; AMPK signaling; Adipogenesis; Alpha6-Beta4 Integrin Signaling Pathway; Angiopoietin receptor Tie2-mediated signaling; Bladder cancer; C-MYB transcription factor network; Cell Cycle; Cyclin D associated events in G1; Cyclin E associated events during G1/S transition; DNA Replication; Direct p53 effectors; E2F transcription factor network; ErbB signaling pathway; G1 to S cell cycle control; G1/S DNA Damage Checkpoints; G1/S Transition
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">CDKN1A cyclin-dependent kinase inhibitor 1A [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">CDKN1A</a>
<b>Synonyms</b>	CDKN1A; cyclin-dependent kinase inhibitor 1A; P21; CIP1; SDI1; WAF1; CAP20; CDKN1; MDA-6; p21CIP1; cyclin-dependent kinase inhibitor 1; OTTHUMP00000016297; OTTHUMP00000016298; DNA synthesis inhibitor; CDK-interacting protein 1; CDK-interaction protein 1; wild-type p53-activated fragment 1; melanoma differentiation associated protein 6; cyclin-dependent kinase inhibitor 1A (p21, Cip1); Cyclin-dependent kinase inhibitor 1; Melanoma differentiation-associated protein 6

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<b>Gene ID</b>	1026
<b>mRNA Refseq</b>	NM_000389
<b>Protein Refseq</b>	NP_000380
<b>MIM</b>	116899
<b>UniProt ID</b>	P38936
<b>Chromosome Location</b>	6q21.2
<b>Function</b>	cyclin binding; cyclin-dependent protein kinase activating kinase activity; cyclin-dependent protein kinase activity; cyclin-dependent protein kinase inhibitor activity; kinase activity; metal ion binding; protein binding; protein kinase inhibitor activity
<b>Constructed from</b>	<p>1AXC.</p> 

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