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

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

SPECIFICATION

Product Overview	Recombinant full-length human CDKN1A was expressed in E. coli cells using a N-terminal GST tag.
Species	Human
Source	E.coli
Description	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.
Applications	Kinase Assay; Western Blot
Molecular Weight	46 kDa
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Specific Activity	E. coli

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Purity	> 80 %
Concentration	0.2 ug/ul
Sequences	Full-length
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.
Pathways	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

GENE INFORMATION

Gene Name	CDKN1A cyclin-dependent kinase inhibitor 1A [Homo sapiens]
Official Symbol	CDKN1A
Synonyms	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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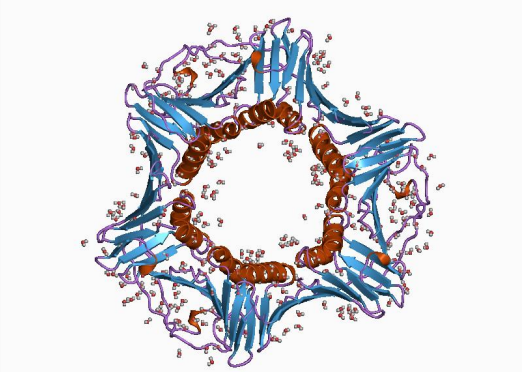
Gene ID	1026
mRNA Refseq	NM_000389
Protein Refseq	NP_000380
MIM	116899
UniProt ID	P38936
Chromosome Location	6q21.2
Function	cyclin binding; cyclin-dependent protein kinase activating kinase activity; cyclin-dependent protein kinase activity; cyclin-dependent protein kinase activity; cyclin-dependent protein kinase inhibitor activity; kinase activity; metal ion binding; protein binding; protein kinase inhibitor activity
Constructed from 1AXC.	

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