

## Recombinant Human CDKN1B, His-tagged

**Cat. No.** CDKN1B-4729H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CDKN1B protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	CDKN1B, also known as cyclin-dependent kinase inhibitor 1B, belongs to the Cip/Kip family of cyclin dependent kinase (Cdk) inhibitor proteins. This protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. It is often referred to as a cell cycle inhibitor protein because its major function is to stop or slow down the cell division cycle.
<b>Form</b>	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol
<b>Molecular Weight</b>	24.2 kDa (218aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)
<b>Purity</b>	> 90% by SDS - PAGE
<b>Concentration</b>	0.25 mg/ml (determined by Bradford assay)
<b>Sequences of amino acids</b>	MGSSHHHHHH SSSLVPRGSH MSNVRVSNGS PSLERMDARQ AEHPKPSACR NLFPGVDHEE LTRDLEKHCR DMEEASQRKW NFDQFNHKPL EGKYEWQEVE KGSLPEFYR PPRPPKGACK VPAQESQDVS GSRPAAPLIG APANSEDTHL

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VDPKTDPSDS QTGLAEQCAG IRKRPATDDS STQNKRANRT EENVSDGSPN  
AGSVEQTPKK PGLRRRQT

**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.

**Pathways**

Cell cycle; Chronic myeloid leukemia; ErbB signaling pathway; Pathways in cancer; Prostate cancer; Small cell lung cancer

## GENE INFORMATION

**Gene Name**

CDKN1B cyclin-dependent kinase inhibitor 1B (p27, Kip1) [ Homo sapiens ]

**Official Symbol**

CDKN1B

**Synonyms**

CDKN1B; cyclin-dependent kinase inhibitor 1B (p27, Kip1); KIP1; MEN4; CDKN4; MEN1B; P27KIP1; cyclin -dependent kinase inhibitor 1B; p27Kip1; Cyclin-dependent kinase inhibitor p27

**Gene ID**

1027

**mRNA Refseq**

NM\_004064

**Protein Refseq**

NP\_004055

**MIM**

600778

**UniProt ID**

P46527

**Chromosome  
Location**

12p13.1-p12

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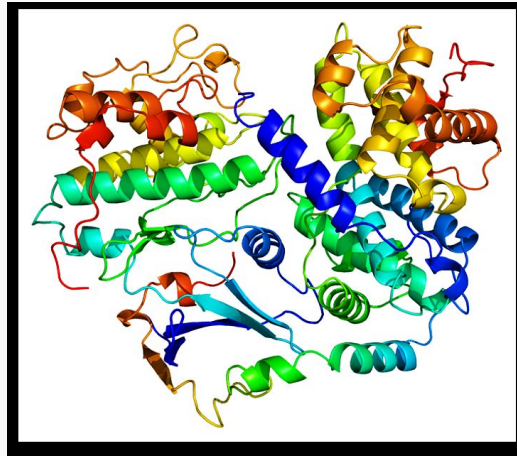
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**Function**

cyclin-dependent protein kinase inhibitor activity; protein binding; protein kinase inhibitor activity; transforming growth factor beta receptor, cytoplasmic mediator activity

**PDB rendering based  
on 1jsu**



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