

Recombinant Human CDKN1B, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human CDKN1B protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	Human
Description	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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol
Molecular Weight	24.2 kDa (218aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)
Purity	> 90% by SDS - PAGE
Concentration	0.25 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MSNVRVSNGS PSLERMDARQ AEHPKPSACR NLFGPVDHEE LTRDLEKHCR DMEEASQRKW NFDFQNHKPL 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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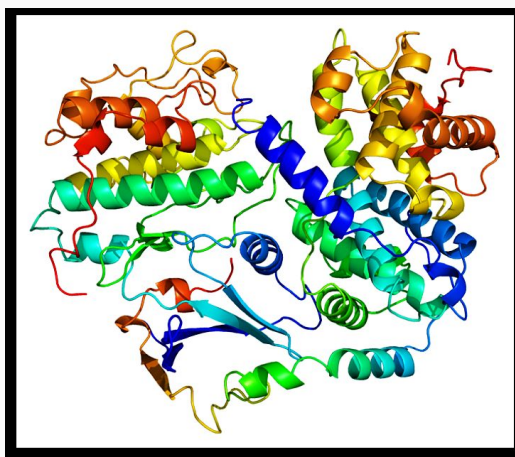
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Function

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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