Recombinant Human Cyclin-Dependent Kinase Inhibitor 1B (p27, Kip1), His-tagged

Cat. No. CDKN1B-2499H **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. MW: 24.2 kDa.
Species	Human
Source	E.coli
ProteinLength	1-198aa
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 Mass	24.2 kDa (218aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MSNVRVSNGS PS LERMDARQ AEHPKPSACR NLFGPVDHEE LTRDLEKHCR DMEEASQRKW NFDFQNHKPL EGKYEWQEVE KGSLPEFYYR PPRPPKGACK VPAQESQDVS GSRPAAPLIG APANSED THL VDPKTDPSDS QTGLAEQCAG IRKRPATDDS STQNKRANRT EENVSDGSPN

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	AGSVEQTPKK PGLRRRQT
Purity	>90% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4℃ short term (1-2 weeks). For long term storage, aliquot and store at -20℃ or -70℃. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)

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); cyclin-dependent kinase inhibitor 1B; KIP1; P27KIP1; MEN4; CDKN4; MEN1B;
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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Pathway	AKT phosphorylates targets in the cytosol, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem;
Function	cyclin-dependent protein kinase activity; cyclin-dependent protein kinase activity; cyclin-dependent protein kinase inhibitor activity; contributes_to cysteine-type endopeptidase activator activity involved in apoptotic process; kinase activity; protein binding; protein kinase inhibitor activity; protein phosphatase binding; transforming growth factor beta receptor, cytoplasmic mediator activity;

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