

Recombinant Human CDKN1B, GST-tagged

Cat. No. CDKN1B-1478H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human p27KIP1 was expressed in <i>E. coli</i> cells using a N-terminal GST tag. MW = 52 kDa.
Species	Human
Source	E.coli
Description	KIP1 (cyclin-dependent kinase inhibitor 1B) is a kinesin-related motor protein required for mitotic spindle assembly and chromosome segregation. Many tumorigenic processes modulate cell-cycle progression by regulating the levels of the cyclin-dependent kinase inhibitor KIP1. KIP1 binds to and inhibits cyclinE-Cdk2 complex, cyclinA-CDK2 and cyclinD1-CDK4. The phosphorylation- and ubiquitination-dependent proteolysis of KIP1 is implicated in control of the G1-S transition in the cell cycle. KIP1 is critical for retinoblastoma protein (Rb)-induced cellular proliferative senescence.
Sequence	Full-length
Applications	Kinase Assay, Western Blot.
Storage And Stability	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.

GENE INFORMATION

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Gene Name	CDKN1B cyclin-dependent kinase inhibitor 1B (p27, Kip1) [Homo sapiens]
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
Pathway	Cell cycle; Chronic myeloid leukemia; ErbB signaling pathway; Pathways in cancer; Prostate cancer; Small cell lung cancer
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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