

# Recombinant Human CDKN1B, GST-tagged

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

## SPECIFICATION

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>      | Recombinant full-length human p27KIP1 was expressed in <i>E. coli</i> cells using a N-terminal GST tag. MW = 52 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>                | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>           | 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. |
| <b>Sequence</b>              | Full-length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Applications</b>          | Kinase Assay, Western Blot.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage And Stability</b> | 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

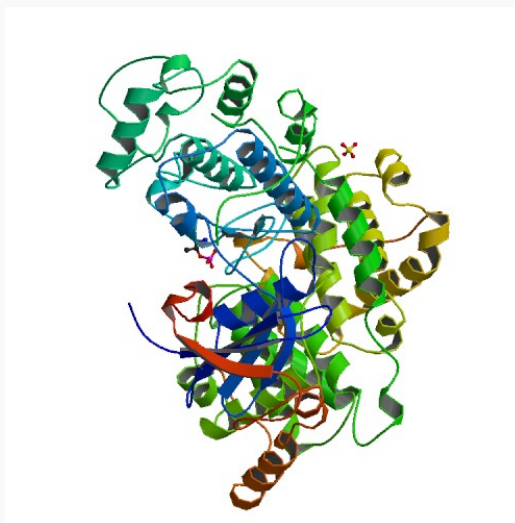
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|                            |                                                                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | CDKN1B cyclin-dependent kinase inhibitor 1B (p27, Kip1) [ Homo sapiens ]                                                                                                           |
| <b>Synonyms</b>            | CDKN1B; cyclin-dependent kinase inhibitor 1B (p27, Kip1); KIP1; MEN4; CDKN4; MEN1B; P27KIP1; cyclin -dependent kinase inhibitor 1B; p27Kip1; Cyclin-dependent kinase inhibitor p27 |
| <b>Gene ID</b>             | 1027                                                                                                                                                                               |
| <b>mRNA Refseq</b>         | NM_004064                                                                                                                                                                          |
| <b>Protein Refseq</b>      | NP_004055                                                                                                                                                                          |
| <b>MIM</b>                 | 600778                                                                                                                                                                             |
| <b>UniProt ID</b>          | P46527                                                                                                                                                                             |
| <b>Chromosome Location</b> | 12p13.1-p12                                                                                                                                                                        |
| <b>Pathway</b>             | Cell cycle; Chronic myeloid leukemia; ErbB signaling pathway; Pathways in cancer; Prostate cancer; Small cell lung cancer                                                          |
| <b>Function</b>            | 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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