# Recombinant human p27/Kip1 protein

Catalog Number: ATGP1264

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
1-198aa

**UniProt No.**
P46527

**NCBI Accession No.**
NP_004055.1

**Alternative Names**
Cyclin-dependent kinase inhibitor 1B, CDKN4, KIP1, MEN1B, MEN4, P27KIP1

## PRODUCT SPECIFICATION

**Molecular Weight**
24.2 kDa (218aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

**Concentration**
0.25mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol

**Purity**
> 90% by SDS-PAGE

**Tag**
His-Tag

**Application**
SDS-PAGE

**Storage Condition**
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**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. Recombinant human CDKN1B protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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### Amino acid Sequence

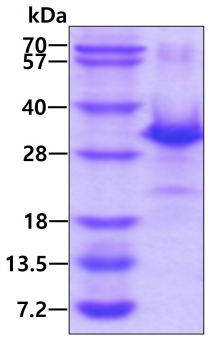
<MGSSHHHHHH SSGLVPRGSH> MSNVRVSNGS PSLERMDARQ AEHPKPSACR NLFGPVDHEE LTRDLEKHCR DMEEASQRKW NFDFQNHKPL EGKYEWQEVE KGSLPEFYYR PPRPPKGACK VPAQESQDVS GSRPAAPLIG APANSEDTHL VDPKTDPSDS QTGLAEQCAG IRKRPATDDS STQNKRANRT EENVSDGSPN AGSVEQTPKK PGLRRRQT

### General References

Ishida N., et al. (2000) J. Biol. Chem. 275:25146-25154
Viglietto G., et al. (2002) Nat. Med. 8:1136-1144

## DATA

### SDS-PAGE




3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.