

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

<MGSSHHHHH SSGLVPRGSH> MSNVRVSN GS PSLEMDARQ AEHPKPSACR NLF GPVDHEE LTRDLEKHCR
DMEEASQRKW NFD FQNHKPL EGKYEWQEVE KGSLPEFYR PPRPPKGACK VPAQESQDVS GSRPAAPLIG APANSEDTLH
VDPKTDPSDS QTGLAEQCAG IRKR PATDDS STQNK RANRT EENVSDGSPN AGSVEQTPKK PGLRRRQT

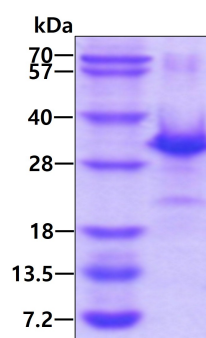
General References

Ishida N., et al. (2000) J. Biol. Chem. 275:25146-25154

Viglietto G., et al. (2002) Nat. Med. 8:1136-1144

DATA

SDS-PAGE



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