

# Recombinant human p21/CIP1/CDKN1A protein

Catalog Number: ATGP1725

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-164aa

### UniProt No.

P38936

### NCBI Accession No.

NP\_000380.1

### Alternative Names

Cyclin-dependent kinase inhibitor 1A, P21, CIP1, SDI1, WAF1, CAP20, CDKN1, MDA-6, p21CIP1

## PRODUCT SPECIFICATION

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### Molecular Weight

20.2 kDa (184aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2M urea, 10% glycerol, 0.1M NaCl

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### 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

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### Description

CDKN1A, also known as P21 or WAF1, plays a critical role in the cellular response to DNA damage, and its overexpression results in cell cycle arrest. In association with CDK2 complexes, it serves to inhibit kinase activity and block progression through G1/S. However, CDKN1A may also enhance assembly and activity in complexes of CDK4 or CDK6 and cyclin D. This protein may be the important intermediate by which p53/TP53 mediates its role as an inhibitor of cellular proliferation in response to DNA damage. Recombinant human CDKN1A protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH> MSEPAGDVRQ NPCGSKACRR LFGPVDSEQL SRDCDALMAG CIQEARERWN  
FDFVTETPLE GDFAWERVRG LGLPKLYLPT GPRRGRDELG GGRRPGTSPA LLQGTAEEDH VDLSSLCTLV PRSGEQAEGS  
PGGPGDSQGR KRRQTSMTDF YHSKRRLIFS KRKP

## General References

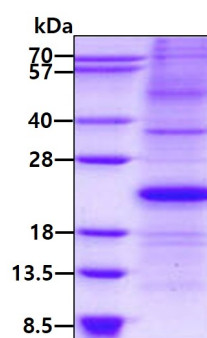
El-Deiry W S., et al. (1994) Cancer Res. 54:1169-1174.

Harper J W., et al. (1993) Cell. 75:805-816.

## DATA

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### SDS-PAGE



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