

# Recombinant human CCND2 protein

Catalog Number: ATGP1342

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-289aa

### UniProt No.

P30279

### NCBI Accession No.

NP\_001750

### Alternative Names

Cyclin D2, KIAK0002, MGC102758, G1/S-specific cyclin-D2

## PRODUCT SPECIFICATION

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### Molecular Weight

35.6 kDa (313aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 1M urea.

### Purity

> 85% 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

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### Description

CCND2 belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with and be involved in the phosphorylation of tumor suppressor protein Rb. High level expression of this protein was

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observed in ovarian and testicular tumors. Recombinant human CCND2 protein, fused to His-tag at N-terminus, was expressed in *E. coli*.

### Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSHELLCH EVDVRRRAVR DRNLLRDDR LQNLLTIEER YLPQCSYFKC VQKDIQPYMR  
RMVATWMLEV CEEQKCEEEV FPLAMNYLDR FLAGVPTPKS HLQLLGAVCM FLASKLKETS PLTAEKLCIY TDNSIKPQEL  
LEWELVVLGK LKWNLAAVTP HDFIEHILRK LPQQREKLSL IRKHAQTFIA LCATDFKFAM YPPSMIATGS VGAAICGLQQ  
DEEVSSLTCD ALTELLAKIT NTDVDCLKAC QEQIEAVLLN SLQQYRQDQR DGSKSEDELQ QASTPTDVRD IDL

### General References

Inaba T., et al. (1992) *Genomics*. 13(3):565-74.

Wang Z., et al. (2008) *Cell Struct Funct*. 33(2):171-83.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)