

Recombinant Human Cyclin D2, His-tagged

Cat. No. CCND2-320H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CCND2 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
Description	<p>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 observed in ovarian and testicular tumors.</p>
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 1M Urea.
Molecular Weight	35.6 kDa (313aa)
Purity	> 85% by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford)

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Sequences of amino acids

MGSSHHHHHH SSSLVPRGSH MGSHMELLCH EVDPVRRRAVR 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 DGSKSEDELD
 QASTPTDVRD IDL

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

B Cell Receptor Signaling Pathway; Cell Cycle, Mitotic; Cyclin D associated events in G1; DNA damage response (only ATM dependent); Focal Adhesion; G1 Phase; G1 to S cell cycle control; IL-7 Signaling Pathway; IL2 signaling events mediated by STAT5; Jak-STAT signaling pathway; Measles; Mitotic G1-G1/S phases; Ovarian Infertility Genes; Regulation of Wnt-mediated beta catenin signaling and target gene transcription; Validated targets of C-MYC transcriptional activation; Wnt Signaling Pathway and Pluripotency; p53 signaling pathway

GENE INFORMATION

Gene Name [CCND2 cyclin D2 \[Homo sapiens \]](#)

Official Symbol [CCND2](#)

Synonyms CCND2; cyclin D2; KIAK0002; MGC102758; G1/S-specific cyclin-D2; OTTHUMP00000237990; G1/S-specific cyclin D2

Gene ID [894](#)

mRNA Refseq [NM_001759](#)

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Protein Refseq	NP_001750
MIM	123833
UniProt ID	P30279
Chromosome Location	12p13
Function	protein binding; protein kinase binding

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