

Recombinant Human CCND3 protein, His/T7-tagged

Cat. No. CCND3-840H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human CCND3 (Met1~Leu292) fused with His-tag and T7-ta at N-terminal was expressed in E. coli.

Species Human

Source E.coli

ProteinLength 1-292 a.a.

Description The protein encoded by this gene 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. The CDK4 activity associated with this cyclin was reported to be necessary for cell cycle progression through G2 phase into mitosis after UV radiation. Several transcript variants encoding different isoforms have been found for this gene.

Form Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.

Molecular Mass 36.3kDa

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MASMTGGQQM GRGSEF- MELLCCGTR HAPRAGPDPR LLGDQQRVLQS LLRLEERYVP RASYFQCVQR EIKPHMRKML AYWMLEVCEE QRCEEEVFPL AMNYLDRYLS CVPTRKAQLQ LLGAVCMLLA SKLRETTPLT IEKLCIYTDH AVSPRQLRDW EVLVLGKWKW DLAAVIAHDF LAFILHRLSL PRDRQALVKK HAQTFLALCA TDYTFAMYPP SMIATGSIGA AVQGLGACSM SGDELTELLA GITGTEVDCL RACQEIEAA LRESLREASQ TSSSPAPKAP RGSSSQGPSQ TSTPTDVTAI HL
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%
Applications	SDS-PAGE; WB; ELISA; IP.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	CCND3 cyclin D3 [Homo sapiens]
Official Symbol	CCND3
Synonyms	G1/S-specific cyclin-D3; D3-type cyclin
Gene ID	896
mRNA Refseq	NM_001760

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Protein Refseq	NP_001751
MIM	123834
UniProt ID	P30281
Chromosome Location	6p21
Pathway	B Cell Receptor Signaling Pathway, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell cycle - G1/S transition, organism-specific biosystem
Function	cyclin-dependent protein serine/threonine kinase activity; protein binding; protein kinase binding

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