

Recombinant Human Cyclin B1, His-tagged

Cat. No. CCNB1-6853H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CCNB1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-433aa
Description	CCNB1 is a regulatory protein involved in mitosis. This protein complexes with p34(cdc2) to form the maturation-promoting factor (MPF). Two alternative transcripts have been found, a constitutively expressed transcript and a cell cycle-regulated transcript that is expressed predominantly during G2/M phase. The different transcripts result from the use of alternate transcription initiation sites.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol.
Molecular Mass	50.9 kDa (457aa)
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSIMALRVT RNSKINAENK AKINMAGAKR VPTAPAATSK PGLRPRTALG DIGNKVSEQL QAKMPMKKEA KPSATGKVID KKLPKPLEKV PMLVPVPVSE PVPEPEPEPE PEPVKEEKLS PEPILVDTAS PSPMETSGCA PAEEDLCQAF SDVILAVNDV DAEDGADPNL CSEYVKDIYA YLRQLEEEQA VRPKYLLGRE VTGNMRAILI DWLVQVQMKF RLLQETMYMT VSIIDRFMQN NCVPPKMLQL VGV TAMFIAS KYEEMYPPEI GDFAFVTDNT

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YTKHQIRQME MKILRALNFG LGRPLPLHFL RRASKIGEVD VEQHTLAKYL
MELTMLDYDM VHFPPSQIAA GAFCLALKIL DNGEWTPTLQ HYLSYTEESL
LPVMQHLAKN VVMVNQGLTK HMTVKNKYAT SKHAKISTLP QLNSALVQDL
AKAVAKV

Purity >80% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -74°C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name CCNB1 cyclin B1 [Homo sapiens]

Official Symbol CCNB1

Synonyms CCNB1; cyclin B1; CCNB; G2/mitotic-specific cyclin-B1; G2/mitotic specific cyclin B1; G2/mitotic-specific cyclin B1;

Gene ID 891

mRNA Refseq NM_031966

Protein Refseq NP_114172

MIM 123836

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UniProt ID	P14635
Chromosome Location	5q12
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Cyclin B, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem;
Function	histone kinase activity; kinase activity; patched binding; protein binding; protein kinase binding; protein kinase binding;

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