

# Recombinant Human Cyclin B1, His-tagged

**Cat. No.** CCNB1-1529H    **Lot. No.** (See product label)

## SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant human CCNB1 (aa. 1-433) produced in <i>E.coli</i> is a 49.3 kDa protein. It was fused to His-Tag at N-Terminus.                                                                                                                                                                                                                                                                               |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>             | E.coli                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>        | Cyclin B1 is a regulatory protein involved in mitosis. It 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. |
| <b>Purity</b>             | 95%.                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Preparation</b>        | 0.05mg/0.17 ml.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Tested Application</b> | E, WB, MS.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Buffer</b>             | 10 mM Tris, pH 8.0, 0.1% Triton X-100, 0.002% NaN <sub>3</sub> , 10mM DTT.                                                                                                                                                                                                                                                                                                                                |
| <b>Species Reactivity</b> | n/aH.                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>            | Store at -70°C with any protein, exposing CCNB1 recombinant protein to repeated freeze/thaw cycles is not recommended. When working with proteins care should be                                                                                                                                                                                                                                          |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

taken to keep recombinant protein at a cool and stable temperature.

#### Pathways

Cell cycle; Progesterone-mediated oocyte maturation; p53 signaling pathway; Cell Cycle Checkpoints; Cell Cycle, Mitotic

## GENE INFORMATION

**Gene Name** CCNB1 cyclin B1 [ Homo sapiens ]

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

**Gene ID** 891

**mRNA Refseq** NM\_031966

**Protein Refseq** NP\_114172

**UniProt ID** P14635

**MIM** 123836

**Chromosome Location** 5q12

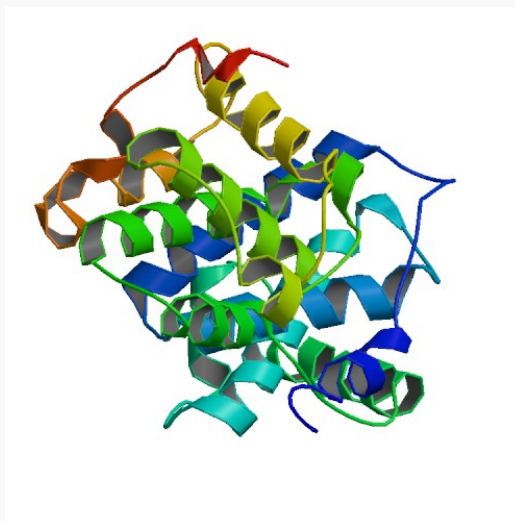
**Function** protein binding

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PDB rendering based  
on 2b9r.



Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com) Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA