

## CCNB1 Human

**Description:** CCNB1 Human Recombinant produced in E. coli is a single polypeptide chain containing 457 amino acids (1-433) and having a molecular mass of 50.9 kDa. CCNB1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:PKPS-044

For research use only.

**Synonyms:** G2/mitotic-specific cyclin-B1, cyclin B1, CCNB.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSHMALRVT RNSKINAENK  
AKINMAGAKR VPTAPAATSK PGLRPRTALG DIGNKVSEQL QAKMPMKEA KPSATGKVID  
KKLPKPLEKV PMLVPVPVSE PVPEPEPEPE PEPVKEEKLS PEPILVDTAS PSPMETSGCA  
PAEEDLCQAF SDVILAVNDV DAEDGADPNL CSEYVKDIYA YLRQLEEEQA VRPKYLLGRE  
VTGNMRAILI DW

**Purity:** Greater than 80% as determined by SDS-PAGE.

### Formulation:

The CCNB1 solution (0.25mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 150mM NaCl and 10% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Cyclin B1 (CCNB1) is a regulatory protein involved in mitosis. CCNB1 creates a complex with p34(cdc2) to form the maturation-promoting factor (MPF). CCNB1 is vital for the control of the cell cycle at the G2/M (mitosis) transition. CCNB1 builds up steadily during the G2 and is immediately destroyed at mitosis. The 2 alternative transcripts produce a constitutively expressed transcript and a cell cycle-regulated transcript which is expressed predominantly during G2/M phase. These transcripts are a result of alternate transcription initiation sites.

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