

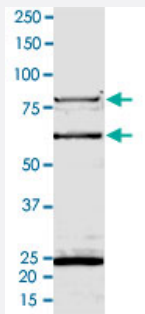
Bioactive

## CDC2/CCNB1 (Human) Recombinant Protein

Catalog # P4640

Size 100 ug

### Applications



### Result of activity analysis

Result of activity analysis

□

### Specification

<b>Product Description</b>	Human CDC2 (NP_001777.1, 1 a.a. - 297 a.a.) and CCNB1 (NP_114172.1, 1 a.a. - 433 a.a.) Recombinant protein with GST-His tag expressed in Sf9 cells.
<b>Host</b>	insect
<b>Theoretical MW (kDa)</b>	CCNB1: 63.882 , CCNB
<b>Form</b>	Liquid
<b>Preparation Method</b>	Insect cell (Sf9) expression system
<b>Purification</b>	GST affinity chromatography
<b>Concentration</b>	0.110 ug/uL

Activity	66 pmol/ug x min
Quality Control Testing	2 ug/lane SDS-PAGE Stained with Coomassie Blue
Storage Buffer	In 50 mM Tris-HCl, 100 mM NaCl, pH 8.0. (5 mM DTT, 4 mM reduced glutathione, 20% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing
Note	Result of activity analysis Result of activity analysis

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — CCNB1

Entrez GeneID	<a href="#">891</a>
Protein Accession#	<a href="#">NP_001777.1 (Gene ID : 983);NP_114172.1 (Gene ID : 891)</a>
Gene Name	CCNB1
Gene Alias	CCNB
Gene Description	cyclin B1
Omim ID	<a href="#">123836</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	The protein encoded by this gene is a regulatory protein involved in mitosis. The gene product 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. [provided by RefSeq]
Other Designations	G2/mitotic-specific cyclin B1

## Gene Info — CDC2

Entrez GeneID	<a href="#">983</a>
Protein Accession#	<a href="#">NP_001777.1 (Gene ID : 983);NP_114172.1 (Gene ID : 891)</a>
Gene Name	CDC2
Gene Alias	CDC28A, CDK1, DKFZp686L20222, MGC111195
Gene Description	cell division cycle 2, G1 to S and G2 to M
Omim ID	<a href="#">116940</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	OTTHUMP00000019660 cell cycle controller CDC2 cell division control protein 2 homolog cell division cycle 2 protein cyclin-dependent kinase 1 p34 protein kinase

## Pathway

- [Cell cycle](#)
- [Cell cycle](#)
- [Gap junction](#)
- [p53 signaling pathway](#)
- [p53 signaling pathway](#)

## Disease

- [Adenocarcinoma](#)
- [Alzheimer disease](#)
- [Breast cancer](#)

- [Breast Neoplasms](#)
- [Dementia](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Ovarian Neoplasms](#)
- [Pulmonary Disease](#)