

Recombinant Human Human CDK1

Cat. No. CCNB1-31593TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human CDK1 and CCNB1 with N terminal proprietary tags on both proteins; MWt 58 and 75kDa respectively.
Species	Human
Source	Sf9 Cells
Description	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.
Tissue specificity	Isoform 2 is found in breast cancer tissues.
Biological activity	The Specific activity of CCNB1-31593TH was determined to be 14 nmol/min/mg.
Form	Liquid
Purity	Densitometry
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 10mM Glutathione, 0.25mM DTT, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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

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cycles.

Sequence Similarities Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily. Contains 1 protein kinase domain.

Full Length Full L.

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;

Gene ID 891

mRNA Refseq NM_031966

Protein Refseq NP_114172

MIM 123836

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,

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organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem;

Function

histone kinase activity; kinase activity; protein binding; protein kinase binding;

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