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: NoneConstituents: 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

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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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