

Recombinant Human Human CDK1

Cat. No. CCNA1-31591TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human CDK1 and Cyclin-A1 with N-terminal proprietary tags on both proteins; MWt 58 and 81 kDa respectively.
Species	Human
Source	Sf9 Cells
Description	The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. The cyclin encoded by this gene was shown to be expressed in testis and brain, as well as in several leukemic cell lines, and is thought to primarily function in the control of the germline meiotic cell cycle. This cyclin binds both CDK2 and CDC2 kinases, which give two distinct kinase activities, one appearing in S phase, the other in G2, and thus regulate separate functions in cell cycle. This cyclin was found to bind to important cell cycle regulators, such as Rb family proteins, transcription factor E2F-1, and the p21 family proteins. Multiple transcript variants encoding different isoforms have been found for this gene.
Tissue specificity	Isoform 2 is found in breast cancer tissues.
Biological activity	The Specific activity of CCNA1-31591TH was determined to be 38 nmol/min/mg.
Form	Liquid

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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 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	CCNA1 cyclin A1 [Homo sapiens]
Official Symbol	CCNA1
Synonyms	CCNA1; cyclin A1; cyclin-A1;
Gene ID	8900
mRNA Refseq	NM_001111046
Protein Refseq	NP_001104516
MIM	604036
Uniprot ID	P78396

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Chromosome Location	13q12.3-q13
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; C-MYB transcription factor network, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem;
Function	protein binding; protein kinase binding;

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