Recombinant Human CDK7, His-tagged

Cat. No. CCNH-31758TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Reconmbinant Full length human CDK7, Cyclin H1 and MNATI co-expressed by Baculovirus in Sf9 cells using an Nterminal His tag.
Species	Human
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. This cyclin forms a complex with CDK7 kinase and ring finger protein MAT1. The kinase complex is able to phosphorylate CDK2 and CDC2 kinases, thus functions as a CDK-activating kinase (CAK). This cyclin and its kinase partner are components of TFIIH, as well as RNA polymerase II protein complexes. They participate in two different transcriptional regulation processes, suggesting an important link between basal transcription control and the cell cycle machinery. A pseudogene of this gene is found on chromosome 4. Alternate splicing results in multiple transcript variants.
Conjugation	HIS
Biological activity	Specific activity: 19 nmol/min/mg.
Form	Liquid
Purity	>90% by SDS-PAGE

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	Preservative: 150mM ImidazoleConstituents: 25% Glycerol, 50mM Sodium phosphate, 300mM Sodium chloride, 0.2mM DTT, 0.1mM PMSF, pH 7
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Full Length	Full L.

GENE INFORMATION

Gene Name	CCNH cyclin H [Homo sapiens]
Official Symbol	CCNH
Synonyms	CCNH; cyclin H; cyclin-H; CAK complex subunit; CDK activating kinase complex subunit; cyclin dependent kinase activating kinase complex subunit; MO15 associated protein; p34; p37;
Gene ID	902
mRNA Refseq	NM_001199189
Protein Refseq	NP_001186118
MIM	601953
Uniprot ID	P51946
Chromosome Location	5q13.3-q14
Pathway	Androgen Receptor Signaling Pathway, organism-specific biosystem; Basal

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	transcription factors, organism-specific biosystem; Basal transcription factors, conserved biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Cell cycle, organism-specific biosystem;
Function	contributes_to DNA-dependent ATPase activity; contributes_to RNA polymerase II carboxy-terminal domain kinase activity; protein binding; contributes_to protein kinase activity; protein kinase binding;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA