

Recombinant Human Human CDK7, His-tagged

Cat. No. CDK7-31757TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full length human CDK7, Cyclin H1 and MNAT1 co-expressed by Baculovirus in Sf9 cells using an Nterminal His tag.
Species	Human
Description	The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of <i>Saccharomyces cerevisiae</i> cdc28, and <i>Schizosaccharomyces pombe</i> cdc2, and are known to be important regulators of cell cycle progression. This protein forms a trimeric complex with cyclin H and MAT1, which functions as a Cdk-activating kinase (CAK). It is an essential component of the transcription factor TFIIF, that is involved in transcription initiation and DNA repair. This protein is thought to serve as a direct link between the regulation of transcription and the cell cycle.
Conjugation	HIS
Biological activity	Specific activity: 19 nmol/min/mg.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: 150mM Imidazole Constituents: 25% Glycerol, 50mM Sodium phosphate, 300mM Sodium chloride, 0.2mM DTT, 0.1mM PMSF, pH 7

 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	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Full Length	Full L.
GENE INFORMATION	
Gene Name	CDK7 cyclin-dependent kinase 7 [Homo sapiens]
Official Symbol	CDK7
Synonyms	CDK7; cyclin-dependent kinase 7; cyclin dependent kinase 7 (homolog of Xenopus MO15 cdk activating kinase) , cyclin dependent kinase 7 (MO15 homolog, Xenopus laevis, cdk activating kinase); CAK; CAK1; CDKN7; MO15; STK1;
Gene ID	1022
mRNA Refseq	NM_001799
Protein Refseq	NP_001790
MIM	601955
Uniprot ID	P50613
Chromosome Location	5q12.1
Pathway	Androgen Receptor Signaling Pathway, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; Basal transcription factors, organism-specific biosystem; Basal transcription factors, conserved biosystem; Cell

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Cycle, Mitotic, organism-specific biosystem;

Function

ATP binding; DNA-dependent ATPase activity; RNA polymerase II carboxy-terminal domain kinase activity; androgen receptor binding; cyclin-dependent protein kinase activity;

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