

## Recombinant Human Human CDK7, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Full length human CDK7, Cyclin H1 and MNAT1 co-expressed by Baculovirus in Sf9 cells using an Nterminal His tag.
<b>Species</b>	Human
<b>Description</b>	<p>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.</p>
<b>Conjugation</b>	HIS
<b>Biological activity</b>	Specific activity: 19 nmol/min/mg.
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	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](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CDK7 cyclin-dependent kinase 7 [ Homo sapiens ]
<b>Official Symbol</b>	CDK7
<b>Synonyms</b>	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;
<b>Gene ID</b>	1022
<b>mRNA Refseq</b>	NM_001799
<b>Protein Refseq</b>	NP_001790
<b>MIM</b>	601955
<b>Uniprot ID</b>	P50613
<b>Chromosome Location</b>	5q12.1
<b>Pathway</b>	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

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



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;

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA