

# Recombinant Human Human CDK4

**Cat. No.** CDK4-31093TH **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human CDK4 and CCND3 with N-terminal proprietary tags co-expressed in a Baculovirus infected Sf9 cell expression system, MWt 58 and 58kDa respectively.
<b>Species</b>	Human
<b>Description</b>	The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of <i>S. cerevisiae</i> cdc28 and <i>S. pombe</i> cdc2. It is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). Mutations in this gene as well as in its related proteins including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. Multiple polyadenylation sites of this gene have been reported.
<b>Biological activity</b>	The Specific activity of CDK4-31093TH was determined to be 16 nmol/min/mg.
<b>Form</b>	Liquid
<b>Storage buffer</b>	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

 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

cycles.

**Full Length**

Full L.

## GENE INFORMATION

**Gene Name**

CDK4 cyclin-dependent kinase 4 [ Homo sapiens ]

**Official Symbol**

CDK4

**Synonyms**

CDK4; cyclin-dependent kinase 4; PSK J3;

**Gene ID**

1019

**mRNA Refseq**

NM\_000075

**Protein Refseq**

NP\_000066

**MIM**

123829

**Uniprot ID**

P11802

**Chromosome  
Location**

12q13

**Pathway**

ATF-2 transcription factor network, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem;

**Function**

ATP binding; cyclin-dependent protein kinase activity; nucleotide binding; protein binding; protein kinase activity;

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