

Recombinant Human Human CDK4

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

SPECIFICATION

Product Overview	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.
Species	Human
Description	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.
Biological activity	The Specific activity of CDK4-31093TH was determined to be 16 nmol/min/mg.
Form	Liquid
Storage buffer	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
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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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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