

## Recombinant Human CDK4 protein, His/T7-tagged

**Cat. No.** CDK4-938H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CDK4(Met1-Glu303) fused with His/T7 tag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Met1-Glu303
<b>Description</b>	Cyclin-Dependent Kinase 4 (CDK4) is a member of the CMGC Ser/Thr protein kinase family and CDC2/CDKX subfamily. CDK4 is a component of Cyclin D-CDK4 (DC) complexes that phosphorylate and inhibit members of the retinoblastoma (RB) protein family including RB1 and regulate the cell-cycle during G1/S transition. These complexes are major integrators of various mitogenenic and antimitogenic signals. It is shown that CDK4 is responsible for the phosphorylation of retinoblastoma gene product (Rb). Defects in CDK4 are a cause of susceptibility to cutaneous Malignant Melanoma Type 3.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.
<b>AA Sequence</b>	MGSSHHHHHSSGLVPRGSHMASMTGGQQMGRGSMATSRYPVAEIGVGAYGT VYKARDPHSGHF VALKSVRVPNGGGGGGLPISTVREVALLRLEAFEHPNVVRL MDVCATSRTDREIKVTLVFEHV DQDLRTYLDKAPPPGLPAETIKDLMRQFLRGLDFL HANCIVHRDLKPENILVTSSGGTVKLADFGL ARIYSYQMALTPVVVTLWYRAPEVLLQ STYATPVDMMWSVGCIFAEMFRRKPLFCGNSEADQLGKI FDLIGLPPEDDWPRDVSL

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	PRGAFPPRGPRPVQSVVPEMEESGAQLLLEMLTFNPHKRISAFRALQ HSYLHKDEG NPE
<b>Endotoxin</b>	Less than 0.1 ng/g (1 IEU/g) as determined by LAL test.
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE.
<b>Storage</b>	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH <sub>2</sub> O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
<b>Shipping</b>	The product is shipped at ambient temperature.

## GENE INFORMATION

<b>Gene Name</b>	CDK4 cyclin-dependent kinase 4 [ Homo sapiens ]
<b>Official Symbol</b>	CDK4
<b>Synonyms</b>	CDK4; cyclin-dependent kinase 4; PSK J3; cell division protein kinase 4; CMM3; PSK-J3; MGC14458;
<b>Gene ID</b>	1019
<b>mRNA Refseq</b>	NM_000075

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<b>Protein Refseq</b>	NP_000066
<b>MIM</b>	123829
<b>UniProt ID</b>	P11802
<b>Chromosome Location</b>	12q13
<b>Pathway</b>	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; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem;
<b>Function</b>	ATP binding; cyclin-dependent protein kinase activity; nucleotide binding; protein binding; protein kinase activity;

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