

Recombinant Human CDK4 protein, His/T7-tagged

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

SPECIFICATION

Product Overview	Recombinant Human CDK4(Met1-Glu303) fused with His/T7 tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Glu303
Description	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.
Form	Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.
AA Sequence	MGSSHHHHHHSSGLVPRGSHMASMTGGQQMGRGSMATSRYPVAEIGVGAYGT VYKARDPHSGHF VALKSVRVPNGGGGGGGLPISTVREVALLRRLEAFEHPNVVRL MDVCATSRTDREIKVTLVFEHV DQDLRTYLDKAPPPGLPAETIKDLMRQFLRGLDFL HANCIVHRDLKPENILVTSGGTVKLADFGF ARIYSYQMALTPVVVTLWYRAPEVLLQ STYATPVDMMWSVGCIFAEMFRRKPLFCGNSEADQLGKI FDLIGLPPEDDWPRDVSL

 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

	PRGAFPPRGPRPVQSVPEMEESGAQLLLEMLTFNPHKRISAFRALQ HSYLHKDEG NPE
Endotoxin	Less than 0.1 ng/g (1 IEU/g) as determined by LAL test.
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Storage	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.
Reconstitution	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 ₂ O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

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

 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

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; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem;
Function	ATP binding; cyclin-dependent protein kinase activity; nucleotide binding; protein binding; protein kinase activity;

 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