

# Recombinant Human Cyclin-Dependent Kinase 4, His-tagged

Cat. No. CDK4-7156H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human CDK4 protein, fused to His-tag at N-terminus, was expressed in E. coli. MW: 36.1 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-303aa
<b>Description</b>	Cyclin-dependent kinase 4, also known as CDK4, belongs to the Cyclin-dependent kinases (CDK) family. CDK are the catalytic subunits of the cyclin/cdk complexes, which phosphorylate substrates on threonine/serine residues. CDK4, in complex with D-type cyclins, is thought to regulate cell growth during the G1 phase of the cell cycle. This association with a D-type cyclin upregulates CDK4 activity, whereas binding to the CDK inhibitor p16 downregulates CDK4 activity.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol
<b>Molecular Mass</b>	36.1 kDa (326aa)
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMATSRYE PVAEIGVGAY GTVYKARDPH SGHFVALKSV RVPNGGGGGG GLPISTVREV ALLRRLEAFE HPNVVRLMDV CATSRTDREI KVTLVFEHVD QDLRTYLDKA PPPGLPAETI KDLMRQFLRG LDFLHANCIV HRDLKPENIL VTSGGTVKLA DFGLARIYSY QMALTPVVVT LWYRAPEVLL QSTYATPVD MWSVGCIFAEM FRRKPLFCGN SEADQLGKIF

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DLIGLPPEDD WPRDVSLPRG AFPPRGPRPV QSVPEMEES GAQLLLEMLT  
FNPHKRISAF RALQHSYLHK DEGNPE

**Purity** >85% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 1 mg/ml (determined by Bradford assay)

## 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](#)

**Protein Refseq** [NP\\_000066](#)

**MIM** [123829](#)

**UniProt ID** [P11802](#)

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<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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