

Recombinant Human Cyclin-Dependent Kinase 4, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human CDK4 protein, fused to His-tag at N-terminus, was expressed in E. coli. MW: 36.1 kDa.
Species	Human
Source	E.coli
ProteinLength	1-303aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol
Molecular Mass	36.1 kDa (326aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMATSRYE PVAEIGVGAY GTVYKARDPH SGHFVALKSV RVPNGGGGGG GLPISTVREV ALLRRLEAFE HPNVVRLMDV CATSRTDREI KVTLVFEHVD QDLRTYLDKA PPPGLPAETI KDLMRQFLRG LDFLHANCIV HRDLKPENIL VTSGGTVKLA DFGLARIYSY QMALTPVVVT LWYRAPEVLL QSTYATPVDM WSVGCIFAEM FRRKPLFCGN SEADQLGKIF

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	DLIGLPPEDD WPRDVSLPRG AFPPRGPRPV QSVVPEMEES 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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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;

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