

# Recombinant Human cyclin-dependent kinase 1, His-tagged

**Cat. No.** CDK1-654H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	CDK1, 1-297aa Human, His tag, Insect cell
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	1-297 a.a.
<b>Description</b>	Cyclin-dependent kinase 1, also known as CDK1, plays a key role in the control of the eukaryotic cell cycle by modulating the centrosome cycle as well as mitotic onset; promotes G2-M transition, and regulates G1 progress and G1-S transition via association with multiple interphase cyclins. This protein is required in higher cells for entry into S-phase and mitosis. Recombinant human CDK1 protein, fused to His-tag at C-terminus, was expressed in insect cells using baculovirus expression system and purified by using conventional chromatography techniques.
<b>Form</b>	Liquid. In Phosphate buffered saline (pH7.4), 30% glycerol, 2mM DTT, 0.1mM PMSF
<b>Molecular Mass</b>	35.1 kDa (305aa)
<b>AA Sequence</b>	MEDYTKIEKI GEGTYGVVYK GRHKTTGQVV AMKKIRLESE EEGVPSTAIR EISLLKELRH PNIVSLQDVL MQDSRLYLIF EFLSMDLKKY LDSIPPGQYM DSSLVKSYLY QILQGIVFCH SRRVLHRDLK PQNLLIDDKG TIKLADFGLA RAFGIPIRVY THEVVTLWYR SPEVLLGSAR YSTPVDIWSI GTIFAEATK KPLFHGDSEI DQLFRIFRAL GTPNNEVWPE VESLQDYKNT FPKWKPGSLA

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SHVKNLDENG LDLLSKMLIY DPAKRISGKM ALNHPYFNDL DNQIKKMLEH HHHHH

**Purity** >95% by SDS - PAGE

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

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [CDK1 cyclin-dependent kinase 1 \[ Homo sapiens \]](#)

**Official Symbol** CDK1

**Synonyms** CDK1; cyclin-dependent kinase 1; CDC2, cell division cycle 2, G1 to S and G2 to M; CDC28A; p34 protein kinase; cell cycle controller CDC2; cell division protein kinase 1; cell division control protein 2 homolog; cell division cycle 2, G1 to S and G2 to M; CDC2; P34CDC2; MGC111195; DKFZp686L20222;

**Gene ID** [983](#)

**mRNA Refseq** [NM\\_001170406](#)

**Protein Refseq** [NP\\_001163877](#)

**MIM** [116940](#)

**UniProt ID** [P06493](#)

**Chromosome Location** 10q21.2

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**Pathway**

APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem;  
APC/C:Cdc20 mediated degradation of Cyclin B, organism-specific biosystem;  
APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem;  
ARMS-mediated activation, organism-specific biosystem; Activated TLR4 signalling,  
organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated  
degradation of mitotic proteins, organism-specific biosystem; Androgen Receptor  
Signaling Pathway, organism-specific biosystem;

**Function**

ATP binding; Hsp70 protein binding; RNA polymerase II carboxy-terminal domain  
kinase activity; cyclin binding; cyclin-dependent protein kinase activity; cyclin-  
dependent protein kinase activity; histone kinase activity; nucleotide binding; protein  
binding

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