

## Recombinant Human CDK1 protein, T7/His-tagged

Cat. No. CDK1-213H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CDK1 cDNA (297aa, Isoform-1) fused with T7-His-TEV cleavage site Tag at N-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	297 a.a.
<b>Form</b>	1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.
<b>AA Sequence</b>	MASMTGGQQMGRGHHHHHHGPLYFQGGFEDYTKIEKIGEGTYGVVYKGRHKT GQVVAMKKIRLESEEEGVPST AIREISLLKELRHPNIVSLQDVLMQDSRLYLIFEFLSM DLKKYLDSIPPGQYMDSSLVKSPLYQILQGIVFCHSR RVLHRDLKPQNLLIDDKGTIK LADFGLARAFGIPIRVYTHEVVTLWYRSPEVLLGSARYSTPVDIWSIGTIFAEL ATKKP LFHGDSEIDQLFRIFRALGTPNNEVWPEVESLQDYKNTFPKWKPGSLASHVKNLDE NGLDLLSKMLIYDP AKRISGKMALNHPYFNDLDNQIKKM
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage</b>	Keep at -80 centigrade for long term storage. Product is stable at 4 centigrade for at least 7 days.

### GENE INFORMATION

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<b>Gene Name</b>	CDK1 cyclin-dependent kinase 1 [ Homo sapiens ]
<b>Official Symbol</b>	CDK1
<b>Synonyms</b>	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;
<b>Gene ID</b>	983
<b>mRNA Refseq</b>	NM_001170406
<b>Protein Refseq</b>	NP_001163877
<b>MIM</b>	116940
<b>UniProt ID</b>	P06493
<b>Chromosome Location</b>	10q21.2
<b>Pathway</b>	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;
<b>Function</b>	ATP binding; Hsp70 protein binding; RNA polymerase II carboxy-terminal domain

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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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