Recombinant Human CDK1 protein, T7/His-tagged

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

SPECIFICATION

Product Overview	Recombinant human CDK1 cDNA (297aa, Isoform-1) fused with T7-His-TEV cleavage site Tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	297 a.a.
Form	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.
AA Sequence	MASMTGGQQMGRGHHHHHHGNLYFQGGEFEDYTKIEKIGEGTYGVVYKGRHKTT GQVVAMKKIRLESEEEGVPST AIREISLLKELRHPNIVSLQDVLMQDSRLYLIFEFLSM DLKKYLDSIPPGQYMDSSLVKSYLYQILQGIVFCHSR RVLHRDLKPQNLLIDDKGTIK LADFGLARAFGIPIRVYTHEVVTLWYRSPEVLLGSARYSTPVDIWSIGTIFAEL ATKKP LFHGDSEIDQLFRIFRALGTPNNEVWPEVESLQDYKNTFPKWKPGSLASHVKNLDE NGLDLLSKMLIYDP AKRISGKMALNHPYFNDLDNQIKKM
Purity	>90% by SDS-PAGE
Storage	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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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
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

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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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