

# Active Recombinant Human CDK1 & CCNE1 Protein, GST & His-tagged

**Cat. No.** CDK1 & CCNE1-1248H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human CDC2 (NP_001777.1) (Met1-Met297) was expressed with a GST tag at the N-terminus, constructed the plasmid 1; Recombinant human CCNE1 (NP_001229.1) (Met1-Ala410) was expressed with a polyhistidine tag at the N-terminus, constructed the pla
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	1-297;1-410 a.a.
<b>Predicted N Terminal</b>	Met & His
<b>Form</b>	Supplied as sterile 20 mM Tris, 500 mM NaCl, 2 mM GSH, 10 % glycerol, pH 8.0.
<b>Bio-activity</b>	The specific activity was determined to be 150 nmol/min/mg using Histone H1 as substrate.
<b>Molecular Mass</b>	The recombinant heterotrimer of human CDC2 & CCNE1 comprises 950 (522+428) amino acids and has a calculated molecular mass of 109.7 (60.4+49.3) kDa.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Purity</b>	>90 % as determined by SDS-PAGE.

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<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.
<b>Storage</b>	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CDK1 cyclin-dependent kinase 1 [ Homo sapiens ]
<b>Official Symbol</b>	CDK1
<b>Synonyms</b>	CDC2; CDC28A; P34CDC2; cell cycle controller CDC2; cell division control protein 2 homolog; cell division cycle 2, G1 to S and G2 to M; cell division protein kinase 1; p34 protein kinase
<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>	
<b>Chromosome Location</b>	10q21.1
<b>Pathway</b>	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Centrosome maturation, organism-specific biosystem

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**Function**

ATP binding; RNA polymerase II carboxy-terminal domain kinase activity; cyclin binding

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