

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

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

SPECIFICATION

Product Overview	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
Species	Human
Source	Insect Cells
ProteinLength	1-297;1-410 a.a.
Predicted N Terminal	Met & His
Form	Supplied as sterile 20 mM Tris, 500 mM NaCl, 2 mM GSH, 10 % glycerol, pH 8.0.
Bio-activity	The specific activity was determined to be 150 nmol/min/mg using Histone H1 as substrate.
Molecular Mass	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.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	>90 % as determined by SDS-PAGE.

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Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	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.
GENE INFORMATION	
Gene Name	CDK1 cyclin-dependent kinase 1 [Homo sapiens]
Official Symbol	CDK1
Synonyms	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
Gene ID	983
mRNA Refseq	NM_001170406
Protein Refseq	NP_001163877
MIM	116940
UniProt ID	
Chromosome Location	10q21.1
Pathway	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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