Recombinant Human CDK1/Cyclin A2, GST-tagged, Active

Cat. No. CDK1/CyclinA2-271H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CDK1 and CyclinA2 were co-expressed by baculovirus in*Sf9*insect cells using an N-terminal GST tag on both proteins.
Species	Human
Source	Sf9 Cells
Description	CDK1 or Cell Division Control protein 1 is essential for the completion of START, the controlling event in the cell cycle that is required to initiate mitosis. CDK1 is a catalytic subunit of a protein kinase complex, called the M-Phase Promoting Factor that induces entry into mitosis and is universal among eukaryotes. Phosphorylation of Bcl-2 in G2/M phase-arrested cells following photodynamic therapy with hypericin involves a CDK1-mediated signal and delays the onset of apoptosis. Therapeutic potential of CDK inhibitor NU2058 in androgen-independent prostate cancer has also been demonstrated.
Molecular Weight	~59 kDa and CyclinA2 ~78 kDa.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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GENE INFORMATION

Gene Name	CDK1 cyclin-dependent kinase 1 [Homo sapiens]CCNA2 cyclin A2 [Homo sapiens]
Synonyms	CDK1; cyclin-dependent kinase 1; CDC2; CDC28A; P34CDC2; MGC111195; DKFZp686L20222; cell division cycle 2; OTTHUMP00000019659; OTTHUMP00000019660; OTTHUMP00000019661; p34 protein kinase; cell cycle controller CDC2; cell division control protein 2 homolog; cell division cycle 2, G1 to S and G2 to M; EC 2.7.11.23; EC 2.7.11.22; CCNA2; cyclin A2; CCN1; CCNA; Cyclin-A; Cyclin-A2
Gene ID	983890
mRNA Refseq	NM_001170406NM_001237
Protein Refseq	NP_001163877NP_001228
MIM	116940123835
UniProt ID	P06493P20248
Chromosome Location	10q21.14q25-q31
Pathway	Cell cycle; Gap junction; Progesterone-mediated oocyte maturation; p53 signaling pathway; Cell cycle; Progesterone-mediated oocyte maturation
Function	ATP binding; RNA polymerase II carboxy-terminal domain kinase activity; cyclin-dependent protein kinase activity; cyclin-dependent protein kinase activity; nucleotide binding; protein binding; transferase activity; protein binding

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