

Recombinant Human CDK1, GST-His

Cat. No. CDK1-2660H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CDK1 (amino acids M1 - M297) both N-terminally fused to GST-HIS6-Thrombin cleavage site is expressed in <i>Sf9 cells</i> .
Species	Human
Source	Sf9 Cells
ProteinLength	1-297 a.a.
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.
Concentration	0.105 mg/ml.
Molecular Weight	77.1 kDa.
Formulation	Liquid in 50 mM Tris-HCl, pH 8.0 + 100 mM NaCl + 5 mM DTT + 15 mM reduced glutathione + 20% glycerol.
Specific Activity	51 pmol/μg x min.

GENE INFORMATION

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Gene Name	CDK1 cyclin-dependent kinase 1 [Homo sapiens]
Synonyms	CDK1; cyclin-dependent kinase 1; CDC2; CDC28A; P34CDC2; MGC1111195; 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	983
mRNA Refseq	NM_001170406
Protein Refseq	NP_001163877
MIM	116940
UniProt ID	P06493
Chromosome Location	10q21.1
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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