

Recombinant Human CDK1, GST-tagged

Cat. No. CDK1-997H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CDK1 was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	True
Description	The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
AA Sequence	1-297aa
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	CDK1 cyclin-dependent kinase 1 [Homo sapiens (human)]
Official Symbol	CDK1
Synonyms	CDK1; CDC2; CDC28A; P34CDC2; cyclin-dependent kinase 1; 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; NP_001163877.1; EC 2.7.11.22; EC 2.7.11.23; NP_001163878.1; NP_001777.1; NP_203698.1
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