# Recombinant Human CDK1, GST-tagged

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

## SPECIFICATION

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| **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 Na2HPO4,17mM NaH2PO4, 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 |

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