

## Product datasheet for **AR51832PU-N**

### CDK1 (1-297, His-tag) Human Protein

#### Product data:

|                      |  |
|----------------------|--|
| Product Type:        | Recombinant Proteins   |
| Description:         | CDK1 (1-297, His-tag) human recombinant protein, 0.5 mg  |
| Species:             | Human  |
| Expression Host:     | E. coli  |
| Tag:                 | His-tag  |
| Predicted MW:        | 36.2 kDa   |
| Concentration:       | lot specific   |
| Purity:              | >85% by SDS - PAGE   |
| Buffer:              | Presentation State: Purified<br>State: Liquid purified protein<br>Buffer System: Liquid, In 20mM Tris-HCl (pH8.0) containing 10% glycerol. |
| Preparation:         | Liquid purified protein  |
| Protein Description: | Recombinant human CDK1, fused to His-tag at N-terminus, was expressed in E.coli.   |
| Storage:             | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.<br>Avoid repeated freezing and thawing.               |
| Stability:           | Shelf life: one year from despatch.  |
| RefSeq:              | <a href="#">NP_001163877</a>   |
| Locus ID:            | 983  |
| Cytogenetics:        | 10q21.2  |
| Synonyms:            | CDC2; CDC28A; P34CDC2  |



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**Summary:**

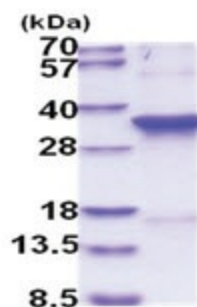
The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins 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. [provided by RefSeq, Mar 2009]

**Protein Families:**

Druggable Genome, Protein Kinase, Stem cell - Pluripotency

**Protein Pathways:**

Cell cycle, Gap junction, Oocyte meiosis, p53 signaling pathway, Progesterone-mediated oocyte maturation

**Product images:**

15% SDS-PAGE (3ug)