

## Product datasheet for **TP300495**

### CDK1 (NM\_001786) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cell division cycle 2, G1 to S and G2 to M (CDC2), transcript variant 1
Species:	Human
Expression Host:	HEK293T
Tag:	C-Myc/DDK
Predicted MW:	33.9 kDa
Concentration:	>50 ug/mL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_001777</a>
Locus ID:	983
UniProt ID:	<a href="#">P06493</a> , <a href="#">I6L9I5</a>
RefSeq Size:	1923
Cytogenetics:	10q21.2
RefSeq ORF:	891
Synonyms:	CDC2; CDC28A; P34CDC2



[View online »](#)

**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:**

Coomassie blue staining of purified CDK1 protein (Cat# TP300495). The protein was produced from HEK293T cells transfected with CDK1 cDNA clone (Cat# [RC200495]) using MegaTran 2.0 (Cat# [TT210002]).