

## Product datasheet for **TP300494**

### CDK2 (NM\_001798) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cyclin-dependent kinase 2 (CDK2), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200494 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MENFQKVEKIGEGTYGWYKARNKLTGEVWALKKIRLDTETEGVPSTAIREISLLKELNHPNIVKLLDVI HTENKLYLVFEFLHQDLKKFMDASALTGIPLPLIKSYLFQLLQGLAFCHSHRVLHRDLKPQNLLINTEGA IKLADFGLARAFGVPVRTYTHEVTLWYRAPEILLGCKYYSTAVDIWSLGCIFAEMVTRRALFPGDSEID QLFRIFRTLGTPEVWVPGVTSMPDYKPSFPKWARQDFSKVVPPLDEDGRSLLSQMLHYDPNKRISAKAA LAHPFFQDVTKPVPHLRL</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	33.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
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:	<u><a href="#">NP_001789</a></u>
Locus ID:	1017



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UniProt ID: [P24941](#)

RefSeq Size: 2301

Cytogenetics: 12q13.2

RefSeq ORF: 894

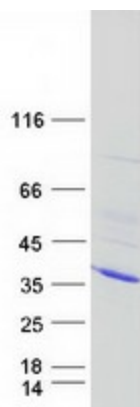
Synonyms: CDKN2; p33(CDK2)

**Summary:** This gene encodes a member of a family of serine/threonine protein kinases that participate in cell cycle regulation. The encoded protein is the catalytic subunit of the cyclin-dependent protein kinase complex, which regulates progression through the cell cycle. Activity of this protein is especially critical during the G1 to S phase transition. This protein associates with and regulated by other subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A), and p27Kip1 (CDKN1B). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Cell cycle, Oocyte meiosis, p53 signaling pathway, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer, Small cell lung cancer

### Product images:



Coomassie blue staining of purified CDK2 protein (Cat# TP300494). The protein was produced from HEK293T cells transfected with CDK2 cDNA clone (Cat# [RC200494]) using MegaTran 2.0 (Cat# [TT210002]).