

## Product datasheet for TP302736L

### CDK7 (NM\_001799) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cyclin-dependent kinase 7 (CDK7), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202736 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MALDVKSRAKRYEKLDLFLGEGQFATVYKARDKNTNQIVAIIKKIKLGHRSKADGINRTALREIKLLQELS HPNIIIGLLDAFGHKSNI SLVDFMETDLEVIKDNSLVLT PSHIKAYMLMTLQGLEYLHRHWILHRDLKP NNLLLDENGV LKLADFLAKSFGSPN RAYTHQVVTRWYRAPELLFGARMYGVGVDMWAVGCILAELLRV PFLPGDSDL DQLTRIFETLGTPT EEQWPD MCSLPDYVTFKSFPGIPLHHIFSAAGDDLLDLIQGLFLFNP CARITATQALKMKYFSNRPGPTPGCQLPRPNCPVETLKEQSNPALAIKRKRTEALEQGGLPKKLIF</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	38.9 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_001790</a></u>
Locus ID:	1022



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UniProt ID: [P50613](#), [A0A0S2Z3F9](#)

RefSeq Size: 1534

Cytogenetics: 5q13.2

RefSeq ORF: 1038

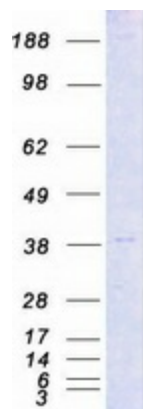
Synonyms: CAK; CAK1; CDKN7; HCAK; MO15; p39MO15; STK1

**Summary:** The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of *Saccharomyces cerevisiae* *cdc28*, and *Schizosaccharomyces pombe* *cdc2*, and are known to be important regulators of cell cycle progression. This protein forms a trimeric complex with cyclin H and MAT1, which functions as a Cdk-activating kinase (CAK). It is an essential component of the transcription factor TFIIF, that is involved in transcription initiation and DNA repair. This protein is thought to serve as a direct link between the regulation of transcription and the cell cycle. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Protein Kinase, Stem cell - Pluripotency, Transcription Factors

**Protein Pathways:** Cell cycle, Nucleotide excision repair

### Product images:



Coomassie blue staining of purified CDK7 protein (Cat# [TP302736]). The protein was produced from HEK293T cells transfected with CDK7 cDNA clone (Cat# [RC202736]) using MegaTran 2.0 (Cat# [TT210002]).