

## Product datasheet for **TP300342M**

### CDK5 (NM\_004935) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human cyclin-dependent kinase 5 (CDK5), 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC200342 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MQKYEKLEKIGEGTYGTVFKAKNRETHEIVALKRVRLDDDDDEGVPSSALREICLLKELKHKNIVRLHDVL  
HSDKLLTLVFEFCDQDLKKYFDSCNGDLDPEIVKSFLFQLLKGLGFCHSRNVLHRDLKPNLLINRNGEL  
KLADFGLARAFGIPVRCYSAEVVTLWYRPPDVLFGAKLYSTSIDMWSAGCIFAELANAGRPLFPGNDVDD  
QLKRIFRLLGTPTEEQWPSMTKLPDYKPYPMYPATTSLVNVVVKLNATGRDLLQNLLKCNPVQRISAEAA  
LQHPYFSDFCPP

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 33.1 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:** [NP\\_004926](#)

**Locus ID:** 1020



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UniProt ID: [Q00535](#), [A0A090N7W4](#)  
RefSeq Size: 1211  
Cytogenetics: 7q36.1  
RefSeq ORF: 876  
Synonyms: LIS7; PSSALRE

**Summary:** This gene encodes a proline-directed serine/threonine kinase that is a member of the cyclin-dependent kinase family of proteins. Unlike other members of the family, the protein encoded by this gene does not directly control cell cycle regulation. Instead the protein, which is predominantly expressed at high levels in mammalian postmitotic central nervous system neurons, functions in diverse processes such as synaptic plasticity and neuronal migration through phosphorylation of proteins required for cytoskeletal organization, endocytosis and exocytosis, and apoptosis. In humans, an allelic variant of the gene that results in undetectable levels of the protein has been associated with lethal autosomal recessive lissencephaly-7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2015]

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

**Protein Pathways:** Alzheimer's disease, Axon guidance

### Product images:



Coomassie blue staining of purified CDK5 protein (Cat# [TP300342]). The protein was produced from HEK293T cells transfected with CDK5 cDNA clone (Cat# [RC200342]) using MegaTran 2.0 (Cat# [TT210002]).