

# Recombinant Human cyclin-dependent kinase 5, His-tagged

**Cat. No.** CDK5-396H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	CDK5, 1-292 aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-292 a.a.
<b>Description</b>	<p>CDK5, also known as cell division protein kinase 5, is a member of the cyclin-dependent kinase family. It is required for proper development of the brain and to be activated, CDK5 must associate with CDK5R1 or CDK5R2. Unlike other cyclin dependent kinases, it does not also require phosphorylation on the T loop so that binding with the activator is sufficient to activate the kinase. This protein is involved in the processes of neuronal maturation and migration, phosphorylating the key intracellular adaptor of the reelin signaling chain. Recombinant human CDK5 protein, fused to His-tag at N-terminus, was expressed in E.coli.</p>
<b>Form</b>	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea
<b>Molecular Mass</b>	35.8 kDa(316aa)
<b>AA Sequence</b>	<p>MGSSHHHHHH SGLVPRGSH MGSHMQKYEK LEKIGEGTYG TVFKAKNRET  HEIVALKRVR LDDDDEGVPS SALREICLLK ELKHKNIVRL HDVLHSDKKL  TLVFEFCDQD LKKYFDSCNG DLDPEIVKSF LFQLLKGLGF CHSRNVLHRD  LKPQNLLINR NGELKLADFG LARAFGIPVR CYSAEVVTLW YRPPDVLFGA</p>

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KLYSTSIDMW SAGCIFAELA NAGRPLFPGN DVDDQLKRIF RLLGTPTEEQ  
 WPSMTKLDPY KPYPMYPATT SLVNVVPKLN ATGRDLLQNL LKCNPVQRIS  
 AEEALQHPYF SDFCPP

**Purity** >85% by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [CDK5 cyclin-dependent kinase 5 \[ Homo sapiens \]](#)

**Official Symbol** CDK5

**Synonyms** CDK5; cyclin-dependent kinase 5; PSSALRE; TPKII catalytic subunit; protein kinase CDK5 splicing; cell division protein kinase 5; serine/threonine-protein kinase PSSALRE; tau protein kinase II catalytic subunit;

**Gene ID** [1020](#)

**mRNA Refseq** [NM\\_001164410](#)

**Protein Refseq** [NP\\_001157882](#)

**MIM** [123831](#)

**UniProt ID** [Q00535](#)

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<b>Chromosome Location</b>	7q36
<b>Pathway</b>	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; CRMPs in Sema3A signaling, organism-specific biosystem; Cocaine addiction, organism-specific biosystem;
<b>Function</b>	ATP binding; ErbB-2 class receptor binding; ErbB-3 class receptor binding; acetylcholine receptor activator activity; cyclin-dependent protein kinase activity; kinase activity; nucleotide binding; p53 binding; protein binding; protein kinase activity; pro

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