Recombinant Human cyclin-dependent kinase 5, His-tagged

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

SPECIFICATION

Product Overview	CDK5, 1-292 aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-292 a.a.
Description	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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea
Molecular Mass	35.8 kDa(316aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMQKYEK LEKIGEGTYG TVFKAKNRET HEIVALKRVR LDDDDEGVPS SALREICLLK ELKHKNIVRL HDVLHSDKKL TLVFEFCDQD LKKYFDSCNG DLDPEIVKSF LFQLLKGLGF CHSRNVLHRD LKPQNLLINR NGELKLADFG LARAFGIPVR CYSAEVVTLW YRPPDVLFGA

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	KLYSTSIDMW SAGCIFAELA NAGRPLFPGN DVDDQLKRIF RLLGTPTEEQ WPSMTKLPDY 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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Chromosome Location	7q36
Pathway	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;
Function	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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