

## AR50659PU-N

## Human CDK5 (1-292, His-tag) - Purified

### Alternate names:

Cell division protein kinase 5, Cyclin-dependent kinase 5, PSSALRE, Serine/threonine-protein kinase PSSALRE, TPKII catalytic subunit, Tau protein kinase II catalytic subunit

### Quantity:

0.5 mg

### Concentration:

0.5 mg/ml (determined by Bradford assay)

### Background:

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.

### Uniprot ID:

[Q00535](#)

### NCBI:

[NP\\_004926](#)

### GeneID:

[1020](#)

### Species:

Human

### Source:

E. coli

### Format:

**State:** Liquid purified protein

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

**Buffer System:** 20 mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea

### Description:

Recombinant human CDK5 protein, fused to His-tag at N-terminus, was expressed in E.coli.

#### AA Sequence:

MGSSHHHHH SGLVPRGSH MGSMMQKYEK LEKIGEGTYG TVFKAKNRET HEIVALKRVR  
LDDDDDEGVPS SALREICLLK ELKHKNIVRL HDVLHSDKKL TLVFEFCDDQ LKKYFDSCNG  
DLDPKIVKSF LFQLLKGLGF CHSRNVLHRD LKPQNLLINR NGELKLADFG LARAFGIPVR  
CYSAEVVTLW YRPPDVLFGA KLYSTSIDMW SAGCIFAELA NAGRPLFPGN DVDDQLKRIF  
RLLGTPTEEQ WPSMTKLPDY KPYPMPATT SLVNVVPKLN ATGRDLLQNL LKCNPVQRIS  
AEEALQHPYF SDFCPP

**Molecular weight:** 35.8 kDa (316aa)

### Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

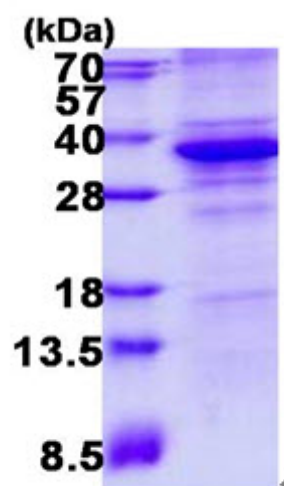
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

### General Readings:

Demetrick DJ. et al. (1994) Cytogenet Cell Genet. 66:72-74. Meyerson M. et al. (1992) EMBO J. 11:2909-2917.

Pictures:



15% SDS-PAGE (3ug)