

# Recombinant human CDK5 protein

Catalog Number: ATGP3683

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

1-292aa

### UniProt No.

Q00535

### NCBI Accession No.

NP\_004926

### Alternative Names

Cyclin-dependent-like kinase 5 isoform 1, CDK5, LIS7, PSSALRE

## PRODUCT SPECIFICATION

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### Molecular Weight

34.1 kDa (298aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 40% glycerol, 1mM DTT

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

CDK5, also known as cyclin-dependent-like kinase 5 isoform 1, is a member of the cyclin dependent kinase family of serine/threonine kinases. It is present in numerous mammalian tissues including kidney, testes, and ovary. Its activity is detected almost exclusively in brain extracts. This is activated by association with a neuron-specific activator, p35 or its isoform p39. CDK5 is probably involved in the control of the cell cycle. Recombinant

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human CDK5 protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

MQQYKLEKI GEGTYGTVFK AKNRETHEIV ALKRVRLDDD DEGVPSSALR EICLLKELKH KNIVRLHDVL HSDKKLTLVF  
EFCQDLKKY FDSCNGDLDV EIVKSFLFQL LKGLGFCHSR NVLHRDLKPQ NLLINRNGEL KLADFGGLARA FGIPVRCYSA  
EVVTLWYRPP DVLFGAKLYS TSIDMWSAGC IFAELANAGR PLFPGNDVDD QLKRFIRLLG TPTEEQWPSM TKLPDYKPYP  
MYPATTSLVN VVPKLNATGR DLLQNLLKCN PVQRISAEAA LQHPYFSDFC PP<HHHHHH>

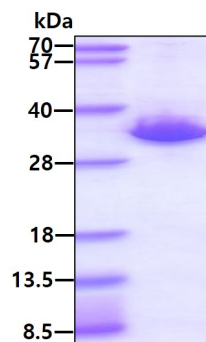
## General References

Shupp A., et al, (2017) Oncotarget. 8:17373-17382.

Na YR., et al, (2015) Sci Signal. 8:ra121.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.