# Recombinant human CDK5 protein

Catalog Number: ATGP3683

## PRODUCT INFORMATION

**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

**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

**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**

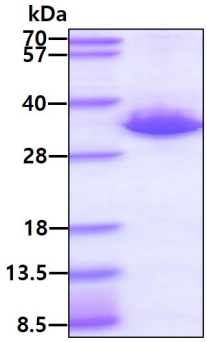
MQKYEKLEKI GEGTYGTVFK AKNRETHEIV ALKRVRLDDD DEGVPSSALR EICLLKELKH KNIVRLHDVL HSDKKLTLVF EFCDQDLKKY FDSCNGDLDP EIVKSFLFQL LKGLGFCHSR NVLHRDLKPQ NLLINRNGEL KLADFGLARA FGIPVRCYSA EVVTLWYRPP DVLFGAKLYS TSIDMWSAGC IFAELANAGR PLFPGNDVDD QLKRIFRLLG TPTEEQWPSM TKLPDYKPYP MYPATTSLVN VVPKLNATGR DLLQNLLKCN PVQRISAEEA 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.