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 neuronspecific 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

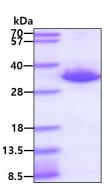
MQKYEKLEKI GEGTYGTVFK AKNRETHEIV ALKRVRLDDD DEGVPSSALR EICLLKELKH KNIVRLHDVL HSDKKLTLVF EFCDQDLKKY FDSCNGDLDP EIVKSFLFQL LKGLGFCHSR NVLHRDLKPQ NLLINRNGEL KLADFGLARA FGIPVRCYSA EVVTLWYRPP DVLFGAKLYS TSIDMWSAGC IFAELANAGR PLFPGNDVDD QLKRIFRLLG TPTEEQWPSM TKLPDYKPYP MYPATTSLVN VVPKLNATGR DLLQNLLKCN PVQRISAEEA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

