

Recombinant Human CDK5 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CDK5-4483H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CDK5 MS Standard C13 and N15-labeled recombinant protein (NP_004926) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a proline-directed serine/threonine kinase that is a member of the cyclin-dependent kinase family of proteins. Unlike other members of the family, the protein encoded by this gene does not directly control cell cycle regulation. Instead the protein, which is predominantly expressed at high levels in mammalian postmitotic central nervous system neurons, functions in diverse processes such as synaptic plasticity and neuronal migration through phosphorylation of proteins required for cytoskeletal organization, endocytosis and exocytosis, and apoptosis. In humans, an allelic variant of the gene that results in undetectable levels of the protein has been associated with lethal autosomal recessive lissencephaly-7. Alternative splicing results in multiple transcript variants.
Molecular Mass	33.3 kDa
AA Sequence	MQKYEKLEKIGEGTYGTVFKAKNRETHEIVALKRVRLLDDDDDEGVPSSALREICLLKEL KHKNIVRLHDVHLHSDKKLTLVFEFCDQLKKYFDSCNGDLDPKIVKSFLFQLLKGLGF CHSRNVLHRDLKPQNLLINRNGELKLADFGGLARAFGIPVRCYSAEVVTLWYRPPDVL

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FGAKLYSTSIDMWSAGCIFAELANAGRPLFPGNDVDDQLKRIFRLLGTPTEEQWPSM
TKLPDYKPYPMYPATTSLVNVVVKLNATGRDLLQNLLKCNPVQRISAEELQHPYFS
DFCPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CDK5 cyclin-dependent kinase 5 [Homo sapiens (human)]

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_004935

Protein Refseq NP_004926

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MIM	123831
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UniProt ID	Q00535
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