Recombinant Full Length Human CDK5 Protein, C-Flag-tagged

Cat. No. CDK5-1168HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CDK5 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	33.1 kDa
AA Sequence	MQKYEKLEKIGEGTYGTVFKAKNRETHEIVALKRVRLDDDDEGVPSSALREICLLKEL KHKNIVRLHDVL HSDKKLTLVFEFCDQDLKKYFDSCNGDLDPEIVKSFLFQLLKGLG FCHSRNVLHRDLKPQNLLINRNGEL KLADFGLARAFGIPVRCYSAEVVTLWYRPPD

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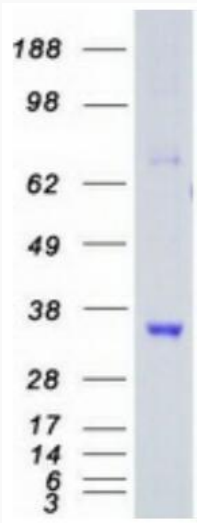
	VLFGAKLYSTSIDMWSAGCIFAELANAGRPLFPGNDVDD QLKRIFRLLGTPTEEQWP SMTKLPDYKPYPMYPATTSLVNVVPKLNATGRDLLQNLLKCNPVQRISAEEA LQHPYFSDFCPPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase
Protein Pathways	Alzheimer's disease, Axon guidance
Full Length	Full L.

GENE INFORMATION

Gene Name	CDK5 cyclin dependent kinase 5 [Homo sapiens (human)]
Official Symbol	CDK5
Synonyms	LIS7; PSSALRE
Gene ID	1020

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mRNA Refseq	NM_004935.4
Protein Refseq	NP_004926.1
MIM	123831
UniProt ID	Q00535



Coomassie blue staining of purified CDK5 protein.

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