

Recombinant Human CDK5 protein, His & S-tagged

Cat. No. CDK5-829H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CDK5 aa. (Asp92~Gln273 (Accession # Q00535)) fused with N-terminal His & S tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Asp92~Gln273
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	Freeze-dried powder
Molecular Mass	26 kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 6.3.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as liquid form in Phosphate buffered saline(PBS), pH 7.4.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	CDK5 cyclin dependent kinase 5 [Homo sapiens (human)]
Official Symbol	CDK5
Synonyms	LIS7; PSSALRE; TPKII catalytic subunit; cell division protein kinase 5; protein kinase CDK5 splicing; serine/threonine-protein kinase PSSALRE; tau protein kinase II catalytic subunit; cyclin-dependent-like kinase 5
Gene ID	1020
mRNA Refseq	NM_001164410.2

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Protein Refseq	NP_001157882.1
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UniProt ID	Q00535
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