Full-Length

CDK1 (Human) Recombinant Protein

Catalog # P9601 Size 2 x 10 ug

Specification

Product Description	Human CDK1 (P06493, 1 a.a. - 297 a.a.) full recombinant protein with His tag at C-terminus expressed in Sf9 cells.
Sequence	MEDYTKIEKIGEGTYGVVYKGRHKTTGQVVAMKKIRLESEEEGVPSTAIREISLLKELRHPNIVSLQD VLMQDSRLYLIFEFLSMDLKKYLDSIPPGQYMDSSLVKSYLYQILQGIVFCHSRRVLHRDLKPQNLLI DDKGTIKLADFGLARAFGIPIRVYTHEVVTLWYRSPEVLLGSARYSTPVDIWSIGTIFAELATKKPLFH GDSEIDQLFRIFRALGTPNNEVWPEVESLQDYKNTFPKWKPGSLASHVKNLDENGLDLLSKMLIY DPAKRISGKMALNHPYFNDLDNQIKKMLEHHHHHH
Host	insect
Theoretical MW (kDa)	35.1
Form	Liquid
Preparation Method	Sf9 cell expression system
Purity	> 95.0% by SDS-PAGE
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS pH 7.4 (0.1m M PMSF, 2mM DTT and 30% glycerol)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

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Gene Info — CDC2

Entrez GeneID	983
Protein Accession#	P06493
Gene Name	CDC2
Gene Alias	CDC28A, CDK1, DKFZp686L20222, MGC111195
Gene Description	cell division cycle 2, G1 to S and G2 to M
Omim ID	116940
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting f actor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitot ic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phos phorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for thi s gene. [provided by RefSeq
Other Designations	OTTHUMP00000019660|cell cycle controller CDC2|cell division control protein 2 homolog|cell div ision cycle 2 protein|cyclin-dependent kinase 1|p34 protein kinase

Pathway

- Cell cycle
- Gap junction
- p53 signaling pathway

Disease

- Alzheimer disease
- Breast cancer
- Breast Neoplasms
- Dementia

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- Genetic Predisposition to Disease
- Lung Neoplasms
- Pulmonary Disease

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