

Recombinant Full Length Human CDK1 Protein, C-Flag-tagged

Cat. No. CDK1-620HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CDK1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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 factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitotic 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 phosphorylation 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 this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	33.9 kDa
AA Sequence	MEDYTKIEKIGEGTYGVVYKGRHKTTGQVVAMKKIRLESEEEGVPSTAIRESLLKEL RHPNIVSLQDVL MQDSRLYLIFEFLSMDLKKYLDLSIPPGQYMDSSLVKSYLEYLQIQGI VFCHSRRVLHRDLKPQNLLIDDKG TIKLADFGGLARAFGIPIRVYTHEVVTLWYRSPEV LLGSARYSTPVDIWSIGTIFAELATKKPLFHGDSEI DQLFRIFRALGTPNNEVWPEVE

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SLQDYKNTFPKWKPGSLASHVKNLDENGLDLLSKMLIYDPAKRISGKM
ALNHPYFNDLDNQIKKMTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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, Stem cell - Pluripotency
Protein Pathways	Cell cycle, Gap junction, Oocyte meiosis, p53 signaling pathway, Progesterone-mediated oocyte maturation
Full Length	Full L.

GENE INFORMATION

Gene Name	CDK1 cyclin dependent kinase 1 [Homo sapiens (human)]
Official Symbol	CDK1
Synonyms	CDC2; CDC28A; P34CDC2
Gene ID	983

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mRNA Refseq [NM_001786.5](#)

Protein Refseq [NP_001777.1](#)

MIM [116940](#)

UniProt ID [P06493](#)



Coomassie blue staining of purified CDK1 protein.

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