

Recombinant Full Length Human CDK4 Protein, C-Flag-tagged

Cat. No. CDK4-927HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CDK4 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 highly similar to the gene products of <i>S. cerevisiae</i> cdc28 and <i>S. pombe</i> cdc2. It is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). Mutations in this gene as well as in its related proteins including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. Multiple polyadenylation sites of this gene have been reported.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	33.5 kDa
AA Sequence	MATSRYPVAEIGVGAYGTVYKARDPHSGHFVALKSVRVPNGGGGGGGGLPISTVRE VALLRRLEAFEHPN VVRLMDVCATSRTDREIKVTLVFEHVDQDLRTYLDKAPPPGLP AETIKDLMRQFLRGLDFLHANCIVHRD LKPENILVTSGGTVKLADFGLARIYSYQMAL

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TPVVVTLWYRAPEVLLQSTYATPVDMWSVGCIFAEMFRR KPLFCGNSEADQLGKIF
DLIGLPPEDDWPRDVSLPRGAFFPRGPRPVQSVVPEMEESGAQLLLEMLTFNP
HKRISAFRALQHSYLHKDEGNPETRTRPLEQKLISEEDLAANDILDYKDDDDKV

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	Bladder cancer, Cell cycle, Chronic myeloid leukemia, Glioma, Melanoma, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer, Small cell lung cancer, T cell receptor signaling pathway, Tight junction
Full Length	Full L.

GENE INFORMATION

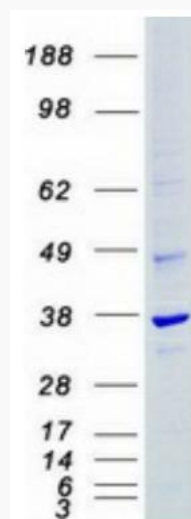
Gene Name	CDK4 cyclin dependent kinase 4 [Homo sapiens (human)]
Official Symbol	CDK4
Synonyms	CMM3; PSK-J3

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Gene ID	1019
mRNA Refseq	NM_000075.4
Protein Refseq	NP_000066.1
MIM	123829
UniProt ID	P11802



Coomassie blue staining of purified CDK4 protein.