

Product datasheet for **AR50548PU-N**

CDK4 (1-303, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	CDK4 (1-303, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMATSRYE PVAEIGVGAY GTVYKARDPH SGHFVALKSV RVPNGGGGGG GLPISTVREV ALLRRLEAFE HPNVVRLMDV CATSRTDREI KVTLVFEHVD QDLRTYLDKA PPPGLPAETI KDLMRQFLRG LDFLHANCIV HRDLKPENIL VTSGGTVKLA DFGLARIYSY QMALTPVVVT LWYRAPEVLL QSTYATPVDM WSVGCIFAEM FRRKPLFCGN SEADQLGKIF DLIGLPPEDD WPRDVSLPRG AFPPRGPRPV QSVPEMEES GAQLLLEMLT FNPHKRISAF RALQHSYLHK DEGNPE
Tag:	His-tag
Predicted MW:	36.1 kDa
Concentration:	lot specific
Purity:	>85% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human CDK4 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_000066
Locus ID:	1019
UniProt ID:	P11802 , A0A024RBB6
Cytogenetics:	12q14.1
Synonyms:	CMM3; PSK-J3



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Summary:

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 *S. cerevisiae* cdc28 and *S. pombe* 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. [provided by RefSeq, Jul 2008]

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

Product images: