

Product datasheet for TP720874

CDK4 (NM_000075) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins Description: Purified recombinant protein of Human cyclin-dependent kinase 4 (CDK4) Species: Human E. coli **Expression Host:** Expression cDNA Clone MGSSHHHHHH SSGLVPRGSH MASMTGGQQM GRGSMATSRY EPVAEIGVGA YGTVYKARDP HSGHFVALKS VRVPNGGGGG GGLPISTVRE VALLRRLEAF EHPNVVRLMD VCATSRTDRE or AA Sequence: IKVTLVFEHV DQDLRTYLDK APPPGLPAET IKDLMRQFLR GLDFLHANCI VHRDLKPENI LVTSGGTVKL ADFGLARIYS YQMALTPVVV TLWYRAPEVL LQSTYATPVD MWSVGCIFAE MFRRKPI FCG NSFAD Tag: N-His Predicted MW: 37.2 kDa **Purity:** >95% as determined by SDS-PAGE and Coomassie blue staining **Buffer:** Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4. Endotoxin: Endotoxin level is < 0.1 ng/ μ g of protein (< 1 EU/ μ g) Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. Stability: Stable for at least 3 months from date of receipt under proper storage and handling conditions. **RefSeq:** NP 000066 Locus ID: 1019 **UniProt ID:** P11802, A0A024RBB6 2020 **RefSeq Size:** Cytogenetics: 12q14.1 **RefSeq ORF:** 909 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 Pathway	s: 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

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