

Product datasheet for PH301156

CDK4 (NM_000075) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CDK4 MS Standard C13 and N15-labeled recombinant protein (NP_000066)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201156
Predicted MW:	33.7 kDa
Protein Sequence:	>RC201156 protein sequence Red=Cloning site Green=Tags(s) MATSRYEPVAEIGVGAYGTVYKARDPHSGHFVALKSVRVPNGGGGGGLPISTVREVALRRLEAFEHPN VVRLMDVCATSRDREIKVTLVFEHVDQLRITYLDKAPPPGLPAETIKDLMRQFLRGLDFLHANCIVHRD LKPENILVTSGGTVKLADFLGLARIYSYQMALTPVVVTLWYRAPEVLLQSTYATPDMWSVGCIFAEMFRR KPLFCGNSEADQLGKIFDLIGLPPEDDWPRDVSLPRGAFPPRGRPVQSVPEMEESGAQLLLEMLTFNP HKRISAFRALQHSYLHKDEGNPE TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000066</u>
RefSeq Size:	2020
RefSeq ORF:	909
Synonyms:	CMM3; PSK-J3
Locus ID:	1019



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UniProt ID: [P11802](#), [A0A024RBB6](#)

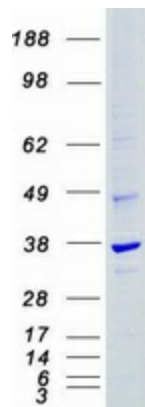
Cytogenetics: 12q14.1

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:



Coomassie blue staining of purified CDK4 protein (Cat# [TP301156]). The protein was produced from HEK293T cells transfected with CDK4 cDNA clone (Cat# [RC201156]) using MegaTran 2.0 (Cat# [TT210002]).