

Product datasheet for PH300494

CDK2 (NM_001798) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CDK2 MS Standard C13 and N15-labeled recombinant protein (NP_001789)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200494
Predicted MW:	33.9 kDa
Protein Sequence:	>RC200494 protein sequence Red=Cloning site Green=Tags(s) MENFQKVEKIGEGTYGVVYKARNKLTGEVVALKKIRLDTETEGVPSTAIRESISLLKELNHPNIVKLLDVI HTENKLYLVFEFLHQDLKKFMDASALTGIPLPLIKSYLFQLLQGLAFCHSHRVLHRDLKPQNLLINTEGA IKLADDFGLARAFGVPVRTYTHEVVTWYRAPEILLGCKYYSTAVDIWSLGCIFAEMVTRRALFPGDSEID QLFRIFRTLGTPEVWVPGVTSMPDYKPSFPKWARQDFSKVVPPLDEDGRSLLSQMLHYDPNKRISAKAA LAHPFFQDVTKPVPHLRL 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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_001789</u>
RefSeq Size:	2301
RefSeq ORF:	894
Synonyms:	CDKN2; p33(CDK2)
Locus ID:	1017



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UniProt ID: [P24941](#), [A0A024RB77](#)

Cytogenetics: 12q13.2

Summary: This gene encodes a member of a family of serine/threonine protein kinases that participate in cell cycle regulation. The encoded protein is the catalytic subunit of the cyclin-dependent protein kinase complex, which regulates progression through the cell cycle. Activity of this protein is especially critical during the G1 to S phase transition. This protein associates with and regulated by other subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A), and p27Kip1 (CDKN1B). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Cell cycle, Oocyte meiosis, p53 signaling pathway, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer, Small cell lung cancer

Product images:



Coomassie blue staining of purified CDK2 protein (Cat# [TP300494]). The protein was produced from HEK293T cells transfected with CDK2 cDNA clone (Cat# [RC200494]) using MegaTran 2.0 (Cat# [TT210002]).