

Product datasheet for PH300494

OriGene Technologies, Inc.

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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:HumanExpression 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)

MENFQKVEKIGEGTYGVVYKARNKLTGEVVALKKIRLDTETEGVPSTAIREISLLKELNHPNIVKLLDVI HTENKLYLVFEFLHQDLKKFMDASALTGIPLPLIKSYLFQLLQGLAFCHSHRVLHRDLKPQNLLINTEGA IKLADFGLARAFGVPVRTYTHEVVTLWYRAPEILLGCKYYSTAVDIWSLGCIFAEMVTRRALFPGDSEID QLFRIFRTLGTPDEVVWPGVTSMPDYKPSFPKWARQDFSKVVPPLDEDGRSLLSQMLHYDPNKRISAKAA

LAHPFFQDVTKPVPHLRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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: NP 001789

RefSeq Size: 2301 RefSeq ORF: 894

Synonyms: CDKN2; p33(CDK2)

Locus ID: 1017





UniProt ID: <u>P24941</u>, <u>A0A024RB77</u>

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.

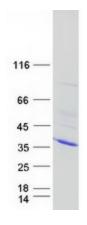
[provided by RefSeg, Mar 2014]

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]).