Recombinant Full Length Human CDK2 Protein, C-Flag-tagged

Cat. No. CDK2-472HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CDK2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	33.7 kDa
AA Sequence	MENFQKVEKIGEGTYGVVYKARNKLTGEVVALKKIRLDTETEGVPSTAIREISLLKELN HPNIVKLLDVI HTENKLYLVFEFLHQDLKKFMDASALTGIPLPLIKSYLFQLLQGLAFC HSHRVLHRDLKPQNLLINTEGA IKLADFGLARAFGVPVRTYTHEVVTLWYRAPEILLG CKYYSTAVDIWSLGCIFAEMVTRRALFPGDSEID QLFRIFRTLGTPDEVVWPGVTSM PDYKPSFPKWARQDFSKVVPPLDEDGRSLLSQMLHYDPNKRISAKAA LAHPFFQDVTKPVPHLRLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

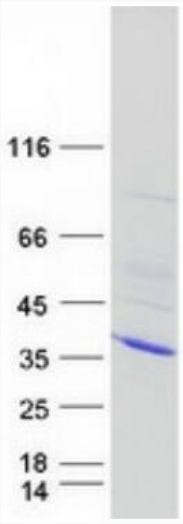
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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
Full Length	Full L.

GENE INFORMATION

Gene Name	CDK2 cyclin dependent kinase 2 [Homo sapiens (human)]
Official Symbol	CDK2
Synonyms	CDKN2; p33(CDK2)
Gene ID	1017
mRNA Refseq	NM_001798.5

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Protein Refseq	NP_001789.2
MIM	116953
UniProt ID	P24941



Coomassie blue staining of purified CDK2 protein.

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