

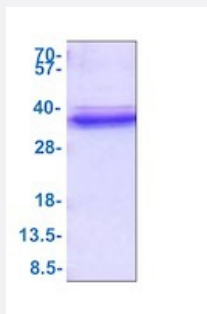
Full-Length

CDK2 (Human) Recombinant Protein

Catalog # P7728

Size 250 ug

Applications



SDS-PAGE analysis of CDK2 (Human) Recombinant Protein

Specification

Product Description

Human CDK2 (NP_001789.2, 1 a.a. - 298 a.a) full-length recombinant protein with His tag expressed in *Baculovirus* expression system.

Sequence

MENFQKVEKIGEGTYGVVYKARNKLTGEVVALKKIRLDTETEGVPSTAIRESLLKELNHPNVKLLD
VIHTENKLYLVFEFLHQDLKKFMDASALTGIPLPLIKSYLFQLLQGLAFCHSHRVLHRDLKPQNLLIN
TEGAIKLADFGLARAFGVPVRTYTHEVVTLYWYRAPEILLGCKYYSTAVDIWSLGCIFAEMVTRRALF
PGDSEIDQLFRIFRTLGTPEVVWPGVTSMPDYKPSFPKWARQDFSKVVPPLDEDGRSLLSQML
HYDPNKRISAKAALAHPPFFQDVTKPVPHRLRL

Host

Viruses

Theoretical MW (kDa)

34.9

Form

Liquid

Preparation Method

Baculovirus expression system

Concentration

0.5mg/mL

Purity

> 90% by SDS-PAGE

Quality Control Testing

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.
SDS-PAGE analysis of CDK2 (Human) Recombinant Protein

Recommend Usage

SDS-PAGE

The optimal working dilution should be determined by the end user.

Storage Buffer

In PBS, pH 7.4 (0.1mM PMSF, 2 mM DTT, 30% glycerol).

Storage Instruction

Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Applications

- [SDS-PAGE](#)

Gene Info — CDK2

Entrez GeneID[1017](#)**Protein Accession#**[P24941](#)**Gene Name**

CDK2

Gene Alias

p33(CDK2)

Gene Description

cyclin-dependent kinase 2

Omim ID[116953](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein kinase is highly similar to the gene products of *S. cerevisiae* cdc28, and *S. pombe* cdc2. It is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and essential for cell cycle G1/S phase transition. This protein associates with and regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by its protein phosphorylation. Two alternatively spliced variants and multiple transcription initiation sites of this gene have been reported. [provided by RefSeq]

Other Designations

cdc2-related protein kinase|cell division kinase 2|p33 protein kinase

Pathway

- [Cell cycle](#)
- [p53 signaling pathway](#)

- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Small cell lung cancer](#)

Disease

- [Azoospermia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Chromosome Aberrations](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Lymphoma](#)
- [Neoplasm Invasiveness](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)