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Datasheet for ABIN7280826

## CDK2 Protein (AA 1-298) (His tag)

### 1 Image

#### Overview

Quantity:	100 µg
Target:	CDK2
Protein Characteristics:	AA 1-298
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CDK2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

#### Product Details

Sequence: MENFQKVEKI GEGTYGVVYK ARNKLTGEVV ALKKIRLDTE TEGVPSTAIR EISLLKELNH  
PNIVKLLDVI HTENKLYLVF EFLHQDLKKF MDASALTGIP LPLIKSYLFQ LLQGLAFCHS  
HRVLHRDLKP QNLLINTEGA IKLADFLGLAR AFGVPVRTYT HEVVTLLWYRA PEILLGCKYY  
STAVDIWSLG CIFAEMVTRR ALFPGDSEID QLFRIFRITLG TPDEVVWPGV TSMPDYKPSF  
PKWARQDFSK VVPPLDEDGR SLLSQMLHYD PNKRISAKAA LAHPFFQDVT KPVPHLRLLLE  
HHHHHH

Purity: > 90 % by SDS - PAGE

#### Target Details

Target:	CDK2
Alternative Name:	CDK2 ( <a href="#">CDK2 Products</a> )

## Target Details

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**Background:** Cyclin-dependent kinase 2, also known as CDK2, phosphorylates CTNNB1, uSP37, p53/TP53, NPM1, CDK7, RB1, BRCA2, MYC, NPAT, EZH2. This protein acts at the G1-S transition to promote the E2F transcriptional program and the initiation of DNA synthesis, and modulates G2 progression, controls the timing of entry into mitosis/meiosis by controlling the subsequent activation of cyclin B/CDK1 by phosphorylation, and coordinates the activation of cyclin B/CDK1 at the centrosome and in the nucleus. This protein is crucial role in orchestrating a fine balance between cellular proliferation, cell death, and DNA repair in human embryonic stem cells (hESCs). Recombinant human CDK2 protein, fused to His-tag at C-terminus, was expressed in insect cells using baculovirus expression system and purified by using conventional chromatography techniques.

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**Molecular Weight:** 34.9 kDa (306aa)

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**NCBI Accession:** [NP\\_001789](#)

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**UniProt:** [P24941](#)

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**Pathways:** [PI3K-Akt Signaling](#), [Cell Division Cycle](#), [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [M Phase](#), [Synthesis of DNA](#)

## Application Details

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**Application Notes:** Optimal working dilution should be determined by the investigator.

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Concentration:** 0.5 mg/mL

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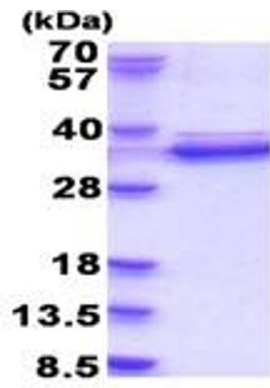
**Buffer:** Liquid. In Phosphate buffered saline ( pH 7.4), 30 % glycerol, 2 mM DTT, 0.1 mM PMSF

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**Storage:** 4 °C,-20 °C,-80 °C

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**Storage Comment:** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.



15% SDS-PAGE (3ug)

**SDS-PAGE**

Image 1.