

Recombinant Human CDK2 protein, His & GST-tagged

Cat. No. CDK2-1933H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CDK2 aa. (Ser94~Thr198) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ser94~Thr198
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	Freeze-dried powder
Molecular Mass	43kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>98%

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Characteristic	The isoelectric point is 7.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage Buffer	PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.
Reconstitution	Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CDK2 cyclin dependent kinase 2 [Homo sapiens (human)]
Official Symbol	CDK2
Synonyms	MYLK3; myosin light chain kinase 3; MLCK; MLCK2; caMLCK; myosin light chain kinase 3; MLC kinase; cardiac-MLCK; cardiac-MyBP-C associated Ca/CaM kinase; putative myosin light chain kinase 3
Gene ID	1017

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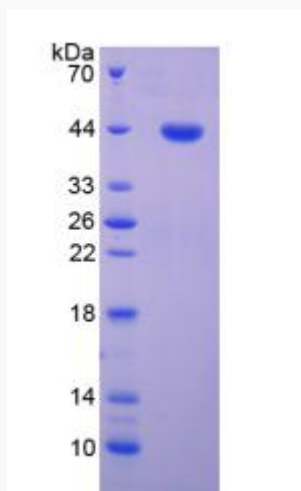
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mRNA Refseq NM_001290230.1

Protein Refseq NP_001277159.1

UniProt ID P24941



SDS-PAGE

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