

## Product datasheet

# Recombinant Human Cdk4 + Cyclin D1 protein ab55695

[4 References](#) [2 Images](#)

### Overview

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<b>Product name</b>	Recombinant Human Cdk4 + Cyclin D1 protein
<b>Protein length</b>	Full length protein

### Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Baculovirus infected Sf9 cells
<b>Amino Acid Sequence</b>	
<b>Species</b>	Human

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab55695** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Biological activity</b>	14nmol/min/mg using protein substrate Rb (773-928).
<b>Applications</b>	SDS-PAGE Functional Studies
<b>Form</b>	Liquid
<b>Additional notes</b>	14nmol/min/mg using protein substrate Rb (773-928). <a href="#">ab56270</a> (Human Rb protein fragment) can be utilized as a substrate for assessing Kinase activity

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol, 0.87% Sodium chloride
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## General Info

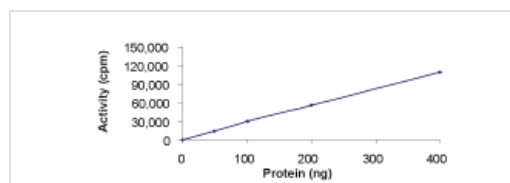
### Relevance

CDK4 is a member of the cyclin-dependent protein kinase family and is involved in the control of cell proliferation during the G1 phase. Phosphorylation at Thr-172 is necessary for enzymatic activity. CDK4 mutations are involved in tumor formation, with defects in CDK4 resulting in cutaneous malignant melanoma 3 (CMM3). Cyclin D1 is essential for the control of the cell cycle at the G1/S transition. It interacts with the CDK4 and CDK6 protein kinases to form a serine/threonine kinase holoenzyme complex. The cyclin subunit imparts substrate specificity to the complex.

### Cellular localization

Nuclear

## Images



Kinase assay using ab55695 using protein substrate Rb. The specific activity of CDK4/CyclinD1 is 14 nmol/min/mg.

Functional Studies - Recombinant Human Cdk4 + Cyclin D1 protein (ab55695)



SDS-PAGE analysis of ab55695 with molecular weight markers. Approximate molecular weights: 57kDa (CDK4)/61kDa (CyclinD1).

SDS-PAGE - Recombinant Human Cdk4 + Cyclin D1 protein (ab55695)

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