

## Product datasheet

# Recombinant Human Cyclin D3 protein ab158041

1 Image

### Overview

<b>Product name</b>	Recombinant Human Cyclin D3 protein
<b>Protein length</b>	Full length protein

### Description

<b>Nature</b>	Recombinant
<b>Source</b>	Wheat germ
<b>Amino Acid Sequence</b>	
<b>Species</b>	Human
<b>Sequence</b>	<p>MELLCCEGTRHAPRAGPDPRLLDGQQRVLQSLLRLEER          YVPRASYFQCVQR          EIKPHMRKMLAYWMLEVCEEQRCEEEVFPLAMNYLD          RYLSCVPTRKAQLQ          LLGAVCMLLASKLRETTPLTIEKLCIYTDHAVSPRQLRD          WEVLVLGKLLK          DLAAVIAHDFLAFILHRLSLPRDRQALVKKHAQTFLALC          ATDYTFAMYPP          SMIATGSIGAAVQQLGACSMGDELTELLAGITGTEVD          CLRACQEIEAA          LRESLREASQTSSSPAPKAPRGSSSQGPSQTSTPTD          VTAIHL</p>
<b>Amino acids</b>	1 to 292
<b>Tags</b>	proprietary tag N-Terminus

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab158041** in the following tested applications.

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

<b>Applications</b>	ELISA Western blot
<b>Form</b>	Liquid
<b>Additional notes</b>	Protein concentration is above or equal to 0.05 mg/ml.

## Preparation and Storage

### Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.31% Glutathione, 0.79% Tris HCl

## General Info

### Function

Regulatory component of the cyclin D3-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D3/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.

### Sequence similarities

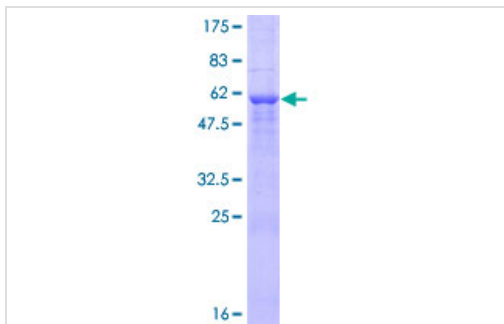
Belongs to the cyclin family. Cyclin D subfamily.

Contains 1 cyclin N-terminal domain.

### Cellular localization

Nucleus. Cytoplasm. Membrane. Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated to the nucleus through interaction with KIP/CIP family members.

## Images



SDS-PAGE - Recombinant Human Cyclin D3 protein  
(ab158041)

ab158041 on a 12.5% SDS-PAGE stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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