

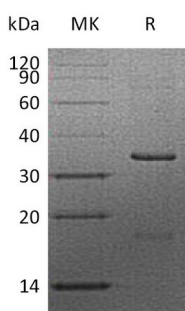
**Product Name: Recombinant Human CCND2 (N-6His)**  
**Catalog #: PEH1899**



## Summary

<b>Name</b>	CCND2/G1/S-specific cyclin-D2
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/μg as determined by LAL test.
<b>Construction</b>	Recombinant Human Cyclin-D2 is produced by our E.coli expression system and the target gene encoding Met1-Leu289 is expressed with a 6His tag at the N-terminus.
<b>Accession #</b>	P30279
<b>Host</b>	E.coli
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	35.36 KDa
<b>Formulation</b>	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 150mM NaCl, 5mM DTT, pH 7.5.
<b>Shipping</b>	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Reconstitution</b>	

## SDS-PAGE image



## Background

<b>Alternative Names</b>	G1/S-specific cyclin-D2;CCND2;
<b>Background</b>	CCND2 , also known as G1/S-specific cyclin-D2 , is a member of the highly conserved cyclin family. Different cyclins exhibit distinct expression and

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degradation patterns which contribute to the temporal coordination of each mitotic event. Cyclins function as regulators of CDK kinases. This cyclin forms a complex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. CCND2 is involved in a number of fundamental biological processes such as phosphorylating and inhibiting members of the retinoblastoma (RB) protein family including RB1 and regulating the cell-cycle during G1/S transition. It is also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. 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 G1 phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Component of the ternary complex, cyclin D2/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.

### **Note**

For Research Use Only , Not for Diagnostic Use.