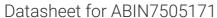
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Cyclin D3 Protein (CCND3) (AA 1-292) (His tag)



Overview

Quantity:	100 μg
Target:	Cyclin D3 (CCND3)
Protein Characteristics:	AA 1-292
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cyclin D3 protein is labelled with His tag.

Product Details

Sequence:	Met 1-Leu 292
Characteristics:	A DNA sequence encoding the Human cyclin D3/CCND3 protein (P30281) (Met 1-Leu 292) was expressed with N-His.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	Cyclin D3 (CCND3)
Alternative Name:	cyclin D3 (CCND3 Products)
Background:	Abbreviation: cyclin D3,CCND3
	Target Synonym: G1/S-specific cyclin-D3,CyclinD3
	Background: 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 mitogenenic 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.		

Molecular Weight:

Calculated MW: 32.01 kDa

Observed MW: 35 kDa

UniProt:

P30281

Pathways:

Cell Division Cycle, Mitotic G1-G1/S Phases, Glycosaminoglycan Metabolic Process

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months