



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## CDK2 acetate(255064-79-0 free base)

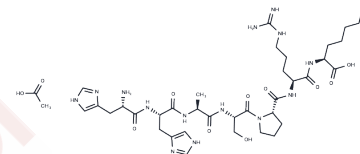
## Chemical Properties

CAS No. :

Formula: C37H61N15O11

Molecular Weight: 891.99

Appearance: no data available

Storage: keep away from moisture  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

## Biological Description

Description	CDK2 acetate is a member of the eukaryotic S/T protein kinase family and its function is to catalyze the phosphoryl transfer of ATP $\gamma$ -phosphate to serine or threonine hydroxyl (denoted as S0/T0) in a protein substrate.
Targets(IC50)	Others
In vitro	CDK2 (Cyclin-dependent kinase 2) is a member of the eukaryotic S/T protein kinase family and its function is to catalyze the phosphoryl transfer of ATP $\gamma$ -phosphate to serine or threonine hydroxyl (denoted as S0/T0) in a protein substrate. The fully active CDK2 is in complex with HHASPRK (an optimal peptide substrate), namely interactions of CDK2 with peptide substrate and the dynamics of the G-loop. CDK2 participates in eukaryotic cell cycle regulation at the G1/S boundary. CDK2 deregulation has been proved to occur in tumor cells, evoking a strong interest in artificial and native inhibitors. CDK2 activity is tightly regulated by a complex mechanism, including a positive regulatory subunit binding, and phosphorylations at positive and/or negative regulatory sites[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1211 mL	5.6054 mL	11.2109 mL
5 mM	0.2242 mL	1.1211 mL	2.2422 mL
10 mM	0.1121 mL	0.5605 mL	1.1211 mL
50 mM	0.0224 mL	0.1121 mL	0.2242 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

## Reference

Bártová I, The mechanism of inhibition of the cyclin-dependent kinase-2 as revealed by the molecular dynamics study on the complex CDK2 with the peptide substrate HHASPRK. Protein Sci. 2005 Feb;14(2):445-51.

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