

## Cdk2/Cyclin Inhibitory Peptide I

## Chemical Properties

CAS No. :

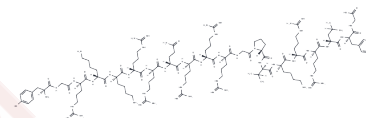
Formula: C111H196N48O23

Molecular Weight: 2571.05

Keep away from moisture

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

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Cyclin-dependent kinase 2 also known as cell division protein kinase 2. The protein encoded by this gene is a member of the cyclin-dependent kinase family of Ser/Thr protein kinases. This protein kinase is highly similar to the gene products of <i>S. cerevisiae</i> <i>cdc28</i> , and <i>S. pombe</i> <i>cdc2</i> , also known as Cdk1 in humans.
Targets(IC50)	Others,CDK
In vitro	It is a catalytic subunit of the cyclin-dependent kinase complex, whose activity is restricted to the G1-S phase of the cell cycle and is essential for the G1/S transition. This protein associate with and is regulated by the regulatory subunits of the complex including cyclin E or A. Cyclin E binds G1 phase Cdk2, which is required for the transition from G1 to S phase while binding with Cyclin A is required to progress through the S phase. Its activity is also regulated by phosphorylation. Two alternatively spliced variants and multiple transcription initiation sites of this gene have been reported. The role of this protein in the G1-S transition has been recently questioned as cells lacking Cdk2 are reported to have no problem during this transition [2][3].

## Solubility Information

Solubility	DMSO: $\geq 257.1$ mg/mL, Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.3889 mL	1.9447 mL	3.8895 mL
5 mM	0.0778 mL	0.3889 mL	0.7779 mL
10 mM	0.0389 mL	0.1945 mL	0.3889 mL
50 mM	0.0078 mL	0.0389 mL	0.0778 mL

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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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481