

## Cdk2/Cyclin Inhibitory Peptide I

## Chemical Properties

CAS No.:	TP2192
Formula:	C <sub>111</sub> H <sub>196</sub> N <sub>48</sub> O <sub>23</sub>
Molecular Weight:	2571.05
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## 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> cdc28, and <i>S. pombe</i> cdc2, also known as Cdk1 in humans.
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: ≥257.1mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.389 mL	1.945 mL	3.889 mL
5 mM	0.078 mL	0.389 mL	0.778 mL
10 mM	0.039 mL	0.194 mL	0.389 mL
50 mM	0.008 mL	0.039 mL	0.078 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481