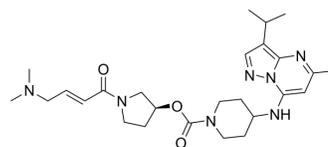


CDK7-IN-2

Cat. No.:	HY-143587
CAS No.:	2326428-19-5
Molecular Formula:	C ₂₆ H ₃₉ N ₇ O ₃
Molecular Weight:	497.63
Target:	CDK
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (200.95 mM; Need ultrasonic)																													
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th>Solvent</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>Concentration</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td></td> <td>2.0095 mL</td> <td>10.0476 mL</td> <td>20.0953 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>0.4019 mL</td> <td>2.0095 mL</td> <td>4.0191 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>0.2010 mL</td> <td>1.0048 mL</td> <td>2.0095 mL</td> </tr> </tbody> </table>	Solvent	Mass	1 mg	5 mg	10 mg	Concentration					1 mM		2.0095 mL	10.0476 mL	20.0953 mL	5 mM		0.4019 mL	2.0095 mL	4.0191 mL	10 mM		0.2010 mL	1.0048 mL	2.0095 mL			
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Please refer to the solubility information to select the appropriate solvent.																														
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.02 mM); Clear solution																													

BIOLOGICAL ACTIVITY

Description	CDK7-IN-2 is a potent inhibitor of CDK7. CDK7 is implicated in both temporal control of the cell cycle and transcriptional activity. CDK7 is implicated in the transcriptional initiation process by phosphorylation of Rbpl subunit of RNA Polymerase II (RNAPII). CDK7 has the potential for the research of cancer disease, in particular aggressive and hard- to-treat cancers (extracted from patent WO2019099298A1, compound 1) ^[1] .
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REFERENCES

[1]. David Andrew Coates, et al. Compounds useful for inhibiting cdk7. Patent WO2019099298A1.

Caution: Product has not been fully validated for medical applications. For research use only.

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