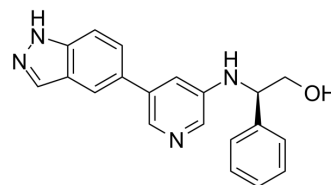


CDK8-IN-4

Cat. No.:	HY-111465
CAS No.:	1613638-82-6
Molecular Formula:	C ₂₀ H ₁₈ N ₄ O
Molecular Weight:	330.38
Target:	CDK
Pathway:	Cell Cycle/DNA Damage
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (302.68 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>3.0268 mL</td> <td>15.1341 mL</td> <td>30.2682 mL</td> </tr> <tr> <td>5 mM</td> <td>0.6054 mL</td> <td>3.0268 mL</td> <td>6.0536 mL</td> </tr> <tr> <td>10 mM</td> <td>0.3027 mL</td> <td>1.5134 mL</td> <td>3.0268 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	3.0268 mL	15.1341 mL	30.2682 mL	5 mM	0.6054 mL	3.0268 mL	6.0536 mL	10 mM	0.3027 mL	1.5134 mL	3.0268 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.57 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.57 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	CDK8-IN-4 is an inhibitor of CDK8 extracted from patent WO2014090692A1, compound example 16, with an IC ₅₀ of 0.2 nM.
IC₅₀ & Target	IC50: 0.2 nM (CDK8) ^[1]

REFERENCES

[1]. Cheng Z, et al. Novel bi-ring phenyl-pyridines/pyrazines for the treatment of cancer. WO2014090692A1

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

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