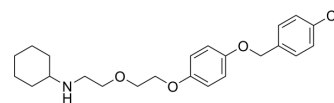


FOXM1-IN-1

Cat. No.:	HY-151986		
CAS No.:	2864407-22-5		
Molecular Formula:	C ₂₃ H ₃₀ ClNO ₃		
Molecular Weight:	403.94		
Target:	DNA/RNA Synthesis		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (247.56 mM; ultrasonic and warming and heat to 160°C)																			
	<table border="1"> <thead> <tr> <th rowspan="2">Concentration</th> <th colspan="3">Solvent Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>2.4756 mL</td> <td>12.3781 mL</td> <td>24.7562 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4951 mL</td> <td>2.4756 mL</td> <td>4.9512 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2476 mL</td> <td>1.2378 mL</td> <td>2.4756 mL</td> </tr> </tbody> </table>	Concentration	Solvent Mass			1 mg	5 mg	10 mg	1 mM	2.4756 mL	12.3781 mL	24.7562 mL	5 mM	0.4951 mL	2.4756 mL	4.9512 mL	10 mM	0.2476 mL	1.2378 mL	2.4756 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 (6.19 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (6.19 mM); Clear solution; Need ultrasonic 																			

BIOLOGICAL ACTIVITY

Description	FOXMI-IN-1 is a potent FOXMI inhibitor with an IC ₅₀ value of 2.65 μM. FOXMI-IN-1 shows antiproliferative activity. FOXMI-IN-1 decreases the the expression of FOXMI, PLK1, CDC25B protein ^[1] .
IC₅₀ & Target	IC ₅₀ : 2.65 μM (FOXMI) ^[1]
In Vitro	FOXMI-IN-1 (0-10 μg/mL; 24 h) decreases the the expression of FOXMI, PLK1, CDC25B protein in SKOV3 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[1]

Cell Line:	HepG2, HCT116 cells
Concentration:	0-100 μ M
Incubation Time:	24 h
Result:	Showed antiproliferative activity with IC ₅₀ s of 15.06, 2.69 μ M for HepG2, HCT116 cells, respectively.

Western Blot Analysis^[1]

Cell Line:	SKOV3 cells
Concentration:	0-10 μ g/mL
Incubation Time:	24 h
Result:	Decreased the expression of FOXM1, PLK1, CDC25B protein in a dose dependent manner.

REFERENCES

[1]. Gao Y, et al. Synthesis and antineoplastic activity of ethylene glycol phenyl aminoethyl ether derivatives as FOXM1 inhibitors. Eur J Med Chem. 2022 Dec 15;244:114877.

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

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