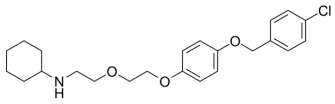
FOXM1-IN-1

Cat. No.:	HY-151986
CAS No.:	2864407-22-5
Molecular Formula:	$C_{23}H_{30}ClNO_3$
Molecular Weight:	403.94
Target:	Others
Pathway:	Others

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)

Preparing Stock Solutions	Solvent / Mass / Concentration	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

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 (6.19 mM); Clear solution; Need ultrasonic
2. 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

FOXM1-IN-1 is a potent FOXM1 inhibitor with an IC_{50} value of 2.65 μM. FOXM1-IN-1 shows antiproliferative activity. FOXM1-IN-1 decreases the the expression of FOXM1, PLK1, CDC25B protein[1].

IC_{50} & Target

IC_{50}: 2.65 μM (FOXM1)[1]

In Vitro

FOXM1-IN-1 (0-10 μg/mL; 24 h) decreases the the expression of FOXM1, 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 μM
Incubation Time:	24 h
Result:	Showed antiproliferative activity with IC_{50}s of 15.06, 2.69 μM for HepG2, HCT116 cells, respectively.

Western Blot Analysis[1]

Cell Line:	SKOV3 cells
Concentration:	0-10 μg/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.

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