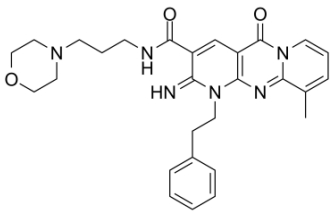
SPOP-IN-6b

Cat. No.:	HY-122615
CAS No.:	2136270-20-5
Molecular Formula:	$C_{28}H_{32}N_6O_3$
Molecular Weight:	500.59
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 : 10 mg/mL (19.98 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.9976 mL	9.9882 mL	19.9764 mL
5 mM	0.3995 mL	1.9976 mL	3.9953 mL
10 mM	0.1998 mL	0.9988 mL	1.9976 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: ≥ 1 mg/mL (2.00 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1 mg/mL (2.00 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SPOP-IN-6b is a speckle-type POZ protein (SPOP) inhibitor extracted from patent CN 107141287, SPOP-B-88[1].

IC_{50} & Target

SPOP[1]

In Vitro

SPOP-IN-6b a SPOP inhibitor with an IC_{50} of 3.58 μM in cell assay[1].

SPOP-IN-6b (0.1-3.0 μM; 10 hours) can suppress SPOP activity, and then increase suppression cancer substrate protein PTEN and DUSP7 content[1].

SPOP-IN-6b suppresses intracellular SPOP acted on substrate PTEN ubiquitination[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	A498 cells
Concentration:	0.1 μM, 0.3 μM, 1.0 μM, 3.0 μM
Incubation Time:	10 hours
Result:	Suppress SPOP activity, and then increase suppression cancer substrate protein PTEN and DUSP7 content.

In Vivo

SPOP-IN-6b (40-80 mg/kg; i.p.; daily; for 25 days) can slow down the growth of tumour by suppressing SPOP[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Nude mice[1]
Dosage:	40 mg/kg, 60 mg/kg, 80 mg/kg
Administration:	Intraperitoneal injection; daily; for 25 days
Result:	Slowed down the growth of tumour by suppressing SPOP.

REFERENCES

[1]. Guangcai Y, et al. The pyrido-pyrimidines of 2- imines -5- ketone group -2,5- dihydros -1-H- two. CN107141287A.

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