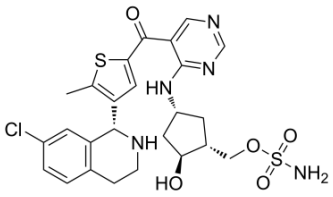
Subasumstat

Cat. No.:	HY-111789
CAS No.:	1858276-04-6
Molecular Formula:	$C_{25}H_{28}ClN_5O_5S_2$
Molecular Weight:	578.1
Target:	E1/E2/E3 Enzyme
Pathway:	Metabolic Enzyme/Protease
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 : 75 mg/mL (129.74 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.7298 mL	8.6490 mL	17.2980 mL
5 mM	0.3460 mL	1.7298 mL	3.4596 mL
10 mM	0.1730 mL	0.8649 mL	1.7298 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 7.5 mg/mL (12.97 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Subasumstat (TAK-981) is a first in class and selective inhibitor of the SUMOylation enzymatic cascade, with potential immune-activating and antineoplastic activities[1][2].

IC_{50} & Target

SUMOylation[1].

In Vitro

Subasumstat (TAK-981) is able to increase the production of type 1 IFN, thereby increasing type 1 IFN-mediated signaling, activating innate effector cells and enhancing the antitumor innate immune responses[1].

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

In Vivo

A single sub-cutaneous injection of Subasumstat (TAK-981) in naive Balb/c mice at the brachial lymph nodes induces activation of DCs[2].

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

REFERENCES

[1]. Sumoylation inhibitor TAK-981.

[2]. TAK-981.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA