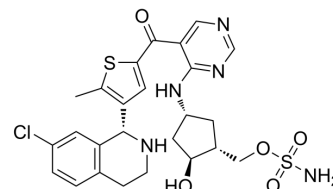


Subasumstat

Cat. No.:	HY-111789
CAS No.:	1858276-04-6
Molecular Formula:	C ₂₅ H ₂₈ ClN ₅ O ₅ S ₂
Molecular Weight:	578.1
Target:	E1/E2/E3 Enzyme
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 16.67 mg/mL (28.84 mM; ultrasonic and warming and heat to 80°C)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	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 >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.32 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (4.32 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.32 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.

CUSTOMER VALIDATION

- Nat Microbiol. 2022 Nov 14.
- J Clin Invest. 2022 May 2;132(9):e152383.
- EMBO Mol Med. 2023 Jul 24;e16431.
- Cell Death Dis. 2023 Feb 21;14(2):147.
- J Cell Sci. 2023 Jul 7;jcs.261119.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Sumoylation inhibitor TAK-981.

[2]. TAK-981.

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

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