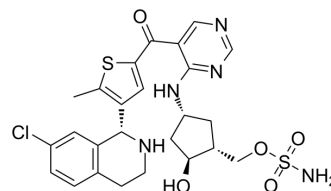


Subasumstat

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
		4°C	2 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)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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: ≥ 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]} .
IC₅₀ & 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

- J Clin Invest. 2022 May 2;132(9):e152383.

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.

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