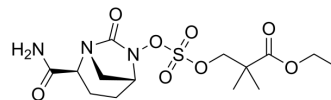


Avibactam tomilopil

Cat. No.:	HY-132987		
CAS No.:	2245880-46-8		
Molecular Formula:	C ₁₄ H ₂₃ N ₃ O ₈ S		
Molecular Weight:	393.41		
Target:	Bacterial; Beta-lactamase		
Pathway:	Anti-infection		
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 (254.19 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.5419 mL	12.7094 mL	25.4188 mL
	5 mM		0.5084 mL	2.5419 mL	5.0838 mL
	10 mM		0.2542 mL	1.2709 mL	2.5419 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (6.35 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.35 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Avibactam tomilopil (ARX-1796, AV-006), an Avibactam proagent, is an orally bioavailable β-lactamase inhibitor. Avibactam has a spectrum of inhibition of class A and C β-lactamases, including ESBLs, AmpC and Klebsiella pneumoniae carbapenemase (KPC) enzymes^{[1][2]}.

CUSTOMER VALIDATION

-
- Antimicrob Agents Chemother. 2023 Jan 23;e0145922.
 - Microbiol Spectr. 2023 Feb 14;e0334922.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Veeraraghavan B, et al. Oral Antibiotics in Clinical Development for Community-Acquired Urinary Tract Infections. Infect Dis Ther. 2021;10(4):1815-1835.
- [2]. Falcone M, et al. Spotlight on ceftazidime/avibactam: a new option for MDR Gram-negative infections. J Antimicrob Chemother. 2016;71(10):2713-2722.
-

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