Zifanocycline TFA

Cat. No.: HY-139554A

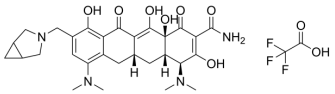
Molecular Formula: $C_{31}H_{37}F_3N_4O_9$

Molecular Weight: 666.64

Target: Bacterial

Pathway: Anti-infection

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (187.51 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.5001 mL	7.5003 mL	15.0006 mL
	5 mM	0.3000 mL	1.5001 mL	3.0001 mL
	10 mM	0.1500 mL	0.7500 mL	1.5001 mL

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

BIOLOGICAL ACTIVITY

Description

Zifanocycline (KBP-7072) TFA is an orally active, semi-synthetic aminomethylcycline antibiotic that inhibits the normal function of bacterial ribosomes. Zifanocycline TFA has broad spectrum in vitro antimicrobial activity against Gram-positive and Gram-negative bacteria, including many multidrug-resistant pathogens. Zifanocycline TFA is indicated for the study of acute bacterial skin and skin structure infections, community-acquired bacterial pneumonia, and complicated intra-abdominal infections[1][2].

REFERENCES

[1]. Tan X, et al. Nonclinical Pharmacokinetics, Protein Binding, and Elimination of KBP-7072, an Aminomethylcycline Antibiotic, in Animal Models. Antimicrob Agents Chemother. 2020;64(6):e00488-20. Published 2020 May 21. [Content Brief]

[2]. Lepak AJ, et al. Pharmacokinetic/Pharmacodynamic Evaluation of a Novel Aminomethylcycline Antibiotic, KBP-7072, in the Neutropenic Murine Pneumonia Model against Staphylococcus aureus and Streptococcus pneumoniae. Antimicrob Agents Chemother. 2019;63(3):e02404-18. Published 2019 Feb 26. [Content Brief]

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

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