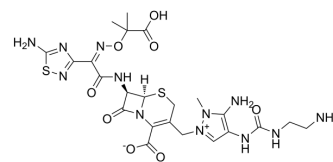


Ceftolozane

Cat. No.:	HY-19806
CAS No.:	689293-68-3
Molecular Formula:	C ₂₃ H ₃₀ N ₁₂ O ₈ S ₂
Molecular Weight:	666.69
Target:	Bacterial
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 : 24 mg/mL (36.00 mM; ultrasonic and adjust pH to 2 with HCl)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.4999 mL	7.4997 mL	14.9995 mL
	5 mM	0.3000 mL	1.4999 mL	2.9999 mL
	10 mM	0.1500 mL	0.7500 mL	1.4999 mL

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

BIOLOGICAL ACTIVITY

Description

Ceftolozane (CXA-101 free base; FR264205 free base) is a cephalosporin antibiotic with potent activity against *Pseudomonas aeruginosa* and strains Enterobacteriaceae, with MICs of 0.5 and 0.25-0.5 mg/L^[1].

In Vivo

Ceftolozane (25 mg/kg) reveals a pharmacokinetic profile with a half-time of 11.6 min and a clearance of 25.2 µg/mL in infected neutropenic mice^[1].

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

REFERENCES

[1]. Craig WA, et al., In vivo activities of ceftolozane, a new cephalosporin, with and without tazobactam against *Pseudomonas aeruginosa* and Enterobacteriaceae, including strains with extended-spectrum β-lactamases, in the thighs of neutropenic mice. *Antimicrob Agents Chemother*. 2013 Apr;57(4):1577-82.

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

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