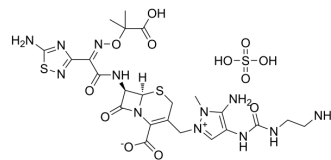


Ceftolozane sulfate

Cat. No.:	HY-19806A
CAS No.:	936111-69-2
Molecular Formula:	C ₂₃ H ₃₂ N ₁₂ O ₁₂ S ₃
Molecular Weight:	764.77
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 : 50 mg/mL (65.38 mM; ultrasonic and heat to 60°C)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.3076 mL	6.5379 mL	13.0758 mL
	5 mM	0.2615 mL	1.3076 mL	2.6152 mL
	10 mM	0.1308 mL	0.6538 mL	1.3076 mL

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

BIOLOGICAL ACTIVITY

Description

Ceftolozane (CXA-101) sulfate is an antipseudomonal cephalosporin. Ceftolozane sulfate inhibits *P. aeruginosa* PAO1 with an MIC of 0.5 µg/mL. Ceftolozane sulfate can also inhibit β-lactam-resistant *P. aeruginosa*^{[1][2]}.

IC₅₀ & Target

MIC: 0.5 µg/mL (*P. aeruginosa* PAO1)^[1]

REFERENCES

[1]. Moyá B, et al. Affinity of the new cephalosporin CXA-101 to penicillin-binding proteins of *Pseudomonas aeruginosa*. *Antimicrob Agents Chemother.* 2010 Sep;54(9):3933-7.

[2]. Moya B, et al. Activity of a new cephalosporin, CXA-101 (FR264205), against beta-lactam-resistant *Pseudomonas aeruginosa* mutants selected in vitro and after antipseudomonal treatment of intensive care unit patients. *Antimicrob Agents Chemother.* 2010 Mar;54(3):1213-7.

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

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