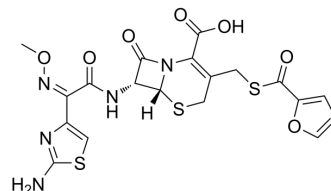


Ceftiofur

Cat. No.:	HY-N7102
CAS No.:	80370-57-6
Molecular Formula:	C ₁₉ H ₁₇ N ₅ O ₇ S ₃
Molecular Weight:	523.56
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (191.00 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.9100 mL	9.5500 mL	19.1000 mL
				5 mM	0.3820 mL	1.9100 mL	3.8200 mL
				10 mM	0.1910 mL	0.9550 mL	1.9100 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.78 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.78 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.78 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Ceftiofur is a semisynthetic antibiotic, with activity against various gram-positive and gram-negative, aerobic and anaerobic bacteria encountered by domestic animals ^[1] .
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CUSTOMER VALIDATION

- Mol Syst Biol. 2022 Sep;18(9):e11081.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Fernández-Varón E, et al. Pharmacokinetics (PK), pharmacodynamics (PD), and PK-PD integration of ceftiofur after a single intravenous, subcutaneous and subcutaneous-LA administration in lactating goats. BMC Vet Res. 2016 Oct 13;12(1):232.

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

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