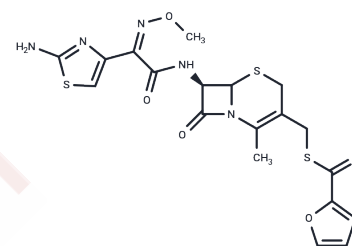


## Ceftiofur

## Chemical Properties

CAS No. :	80370-57-6
Formula:	C <sub>19</sub> H <sub>17</sub> N <sub>5</sub> O <sub>7</sub> S <sub>3</sub>
Molecular Weight:	523.56
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Ceftiofur is a semisynthetic antibiotic, with activity against various gram-positive/negative, anaerobic and aerobic bacteria encountered by domestic animals.
Targets(IC50)	NF-κB,Antibacterial,Antibiotic,Interleukin,p38 MAPK,TNF

## Solubility Information

Solubility	DMSO: 100 mg/mL (191 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (7.64 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.910 mL	9.550 mL	19.100 mL
5 mM	0.382 mL	1.910 mL	3.820 mL
10 mM	0.191 mL	0.955 mL	1.910 mL
50 mM	0.0382 mL	0.191 mL	0.382 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

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