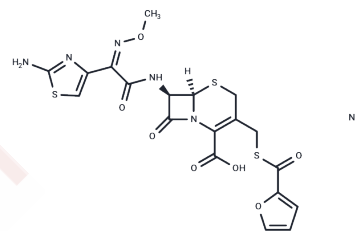


## Ceftiofur sodium

## Chemical Properties

CAS No. :	104010-37-9
Formula:	C <sub>19</sub> H <sub>16</sub> N <sub>5</sub> NaO <sub>7</sub> S <sub>3</sub>
Molecular Weight:	545.54
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Ceftiofur sodium (Naxcel), an antibiotic of the cephalosporin type (third generation), is used as veterinary medicine.
Targets(IC50)	Antibacterial,Antibiotic

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 40 mg/mL (73.32 mM),Sonication is recommended. DMSO: 50 mg/mL (91.65 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.833 mL	9.1652 mL	18.3305 mL
5 mM	0.3666 mL	1.833 mL	3.6661 mL
10 mM	0.1833 mL	0.9165 mL	1.833 mL
50 mM	0.0367 mL	0.1833 mL	0.3666 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.

## Reference

- Yancey RJ Jr, et al. Am J Vet Res. 1987 Jul; 48(7): 1050-3.  
 Yang Y, Hu Y, Yao F, et al.Virtual screening and activity evaluation of human uric acid transporter 1 (hURAT1) inhibitors.RSC Advances.2023, 13(6): 3474-3486.

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