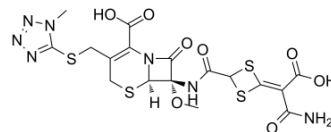


## Cefotetan

Cat. No.:	HY-N6670
CAS No.:	69712-56-7
Molecular Formula:	C <sub>17</sub> H <sub>17</sub> N <sub>7</sub> O <sub>8</sub> S <sub>4</sub>
Molecular Weight:	575.62
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the COA.



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (434.31 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.7373 mL	8.6863 mL	17.3726 mL
				5 mM	0.3475 mL	1.7373 mL	3.4745 mL
				10 mM	0.1737 mL	0.8686 mL	1.7373 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: <b>10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline</b> Solubility: ≥ 1.25 mg/mL (2.17 mM); Clear solution						
	2. Add each solvent one by one: <b>10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline)</b> Solubility: ≥ 1.25 mg/mL (2.17 mM); Clear solution						
	3. Add each solvent one by one: <b>10% DMSO &gt;&gt; 90% corn oil</b> Solubility: ≥ 1.25 mg/mL (2.17 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Cefotetan is a semisynthetic cephamycin antibiotic that exerts its bactericidal effects by inhibition of cell-wall synthesis <sup>[1]</sup> .
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### REFERENCES

[1]. Shi S, et al. Pharmacokinetics and tolerability of intravenous cefotetan disodium for injection in healthy Chinese volunteers: A randomized, open-label,

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single- and multiple-dose study.

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

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