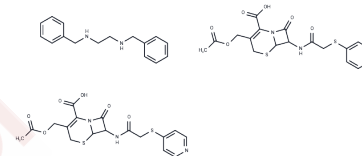


## Cephapirin Benzathine

## Chemical Properties

CAS No. : 97468-37-6  
 Formula: C<sub>17</sub>H<sub>17</sub>N<sub>3</sub>O<sub>6</sub>S<sub>2</sub>.1/2C<sub>16</sub>H<sub>20</sub>N<sub>2</sub>  
 Molecular Weight: 543.63  
 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	Cephapirin Benzathine is a semisynthetic, broad-spectrum, first-generation cephalosporin with antibacterial activity.
Targets(IC50)	Antibacterial,Antibiotic
In vivo	A single treatment with cephapirin benzathine at 40 DPP improved the reproductive performance of buffaloes with subclinical endometritis[1].

## Solubility Information

Solubility	DMSO: 81 mg/mL (149 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	1.8395 mL	9.1974 mL	18.3949 mL
5 mM	0.3679 mL	1.8395 mL	3.679 mL
10 mM	0.1839 mL	0.9197 mL	1.8395 mL
50 mM	0.0368 mL	0.1839 mL	0.3679 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

Nehru D A , Dhaliwal G S , Jan M H , et al. Clinical efficacy of intrauterine cephalosporin benzathine administration on clearance of uterine bacteria and subclinical endometritis in postpartum buffaloes[J]. *Reproduction in Domestic Animals*, 2018.

Hausler K , Godden S M , Schneider M J , et al. Hot topic: Investigating the risk of violative meat residues in bob veal calves fed colostrum from cows treated at dry-off with cephalosporin benzathine[J]. *Journal of dairy science*, 2013, 96(4): 2349-2355.

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