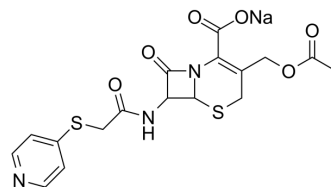


## Cephapirin sodium

<b>Cat. No.:</b>	HY-A0153A
<b>CAS No.:</b>	24356-60-3
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>16</sub> N <sub>3</sub> NaO <sub>6</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	445.45
<b>Target:</b>	Bacterial; Antibiotic
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 33.33 mg/mL (74.82 mM; Need ultrasonic)																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.2449 mL</td> <td>11.2246 mL</td> <td>22.4492 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4490 mL</td> <td>2.2449 mL</td> <td>4.4898 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2245 mL</td> <td>1.1225 mL</td> <td>2.2449 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.2449 mL	11.2246 mL	22.4492 mL	5 mM	0.4490 mL	2.2449 mL	4.4898 mL	10 mM	0.2245 mL	1.1225 mL	2.2449 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: 2.5 mg/mL (5.61 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.61 mM); Clear solution</li> </ol>																					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Cephapirin sodium (Cefapirin sodium), a semisynthetic cephalosporin antibiotic, is bactericidal against strains of gram-positive and gram-negative bacteria <sup>[1]</sup> .
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### REFERENCES

[1]. Bran JL, et al. Clinical and in vitro evaluation of cephalosporin antibiotic. Antimicrob Agents Chemother. 1972 Jan;1(1):35-40.

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

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