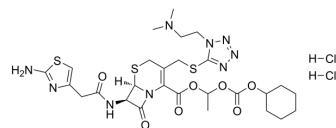


## Cefotiam hexetil hydrochloride

<b>Cat. No.:</b>	HY-A0110A
<b>CAS No.:</b>	95789-30-3
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>39</sub> Cl <sub>2</sub> N <sub>9</sub> O <sub>7</sub> S <sub>3</sub>
<b>Molecular Weight:</b>	768.76
<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 : 250 mg/mL (325.20 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	1.3008 mL	6.5040 mL	13.0080 mL
5 mM		0.2602 mL	1.3008 mL	2.6016 mL	
	10 mM	0.1301 mL	0.6504 mL	1.3008 mL	
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: ≥ 2.08 mg/mL (2.71 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (2.71 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (2.71 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Cefotiam hexetil hydrochloride (CTM-HE) is an oral third-generation cephalosporin, which is a proagent of cefotiam, but has no anti-bacterial property. Cefotiam is an antibiotic <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	β-lactam

### REFERENCES

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

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