## Mecillinam

Cat. No.:	HY-A0269	
CAS No.:	32887-01-7	но
Molecular Formula:	C <sub>15</sub> H <sub>23</sub> N <sub>3</sub> O <sub>3</sub> S	
Molecular Weight:	325.43	
Target:	Bacterial; Antibiotic	
Pathway:	Anti-infection	$\langle$
Storage:	<b>4°C, protect from light, stored under nitrogen</b> * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)	

### SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	3.0729 mL	15.3643 mL	30.7286 mL		
		5 mM	0.6146 mL	3.0729 mL	6.1457 mL		
		10 mM	0.3073 mL	1.5364 mL	3.0729 mL		
In Vivo	1. Add each solvent	Please refer to the solubility information to select the appropriate solvent. 1. Add each solvent one by one: PBS Solubility: 100 mg/mL (307.29 mM); Clear solution; Need ultrasonic					
		<ol> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 6.25 mg/mL (19.21 mM); Clear solution</li> </ol>					
		3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 6.25 mg/mL (19.21 mM); Clear solution					
	<ol> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 6.25 mg/mL (19.21 mM); Clear solution</li> </ol>						

<b>BIOLOGICAL ACTIV</b>	ИТҮ
Description	Mecillinam (Amdinocillin), the $\beta$ -lactam antibiotic, has a broad spectrum of activity against gram-negative organisms <sup>[1]</sup> .
IC₅₀ & Target	β-lactam
In Vivo	Mecillinam (Amdinocillin, 400 mg per kg) is effective for the treatment of catheterassociated infections at high dosages (400

# Product Data Sheet



mg per kg of body weig MCE has not independ	ently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Mecillinam (Amdinocillin, 400 mg per kg) is effective for the treatment of catheterassociated infections at high dosages (400 mg per kg of body weight/d) <sup>[1]</sup>
Dosage:	50, 100, 200, and 400 mg per kg.
Administration:	Intravenously each day in four divided doses over a 72-h period.
Result:	High dose of 400 mg/kg exhibited significant activity.

### CUSTOMER VALIDATION

- Microbiol Spectr. 2023 Apr 24;e0069223.
- Microbiol Spectr. 2022 Dec 8;e0303822.

See more customer validations on www.MedChemExpress.com

#### REFERENCES

[1]. M E Olson, et al. Amdinocillin Treatment of Catheter-Associated Bacteriuria in Rabbits. J Infect Dis. 1989 Jun;159(6):1065-72.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA