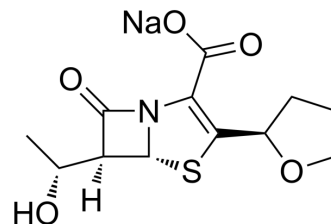


## Faropenem sodium

<b>Cat. No.:</b>	HY-76260
<b>CAS No.:</b>	122547-49-3
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>14</sub> NNaO <sub>5</sub> S
<b>Molecular Weight:</b>	307.3
<b>Target:</b>	Bacterial; Antibiotic
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (325.41 mM; Need ultrasonic)  
DMSO : 25 mg/mL (81.35 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.2541 mL	16.2707 mL	32.5415 mL
	5 mM	0.6508 mL	3.2541 mL	6.5083 mL
	10 mM	0.3254 mL	1.6271 mL	3.2541 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 100 mg/mL (325.41 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (8.14 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (8.14 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (8.14 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Faropenem sodium is an orally bioavailable penem antibiotic which can efficiently kill Mycobacterium tuberculosis.

#### IC<sub>50</sub> & Target

Bacterial<sup>[1]</sup>

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## CUSTOMER VALIDATION

- Int J Antimicrob Agents. 3 September 2022, 106669.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[1]. Dhar N, et al. Rapid cytolysis of Mycobacterium tuberculosis by faropenem, an orally bioavailable  $\beta$ -lactam antibiotic. Antimicrob Agents Chemother. 2015 Feb;59(2):1308-19.

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

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