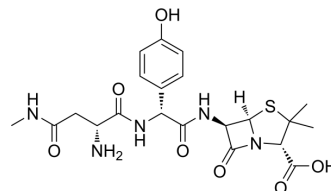


Aspoxicillin

Cat. No.:	HY-135842	
CAS No.:	63358-49-6	
Molecular Formula:	C ₂₁ H ₂₇ N ₅ O ₇ S	
Molecular Weight:	493.53	
Target:	Bacterial; Antibiotic	
Pathway:	Anti-infection	
Storage:	Powder	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 25 mg/mL (50.66 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.0262 mL	10.1311 mL	20.2622 mL
		5 mM	0.4052 mL	2.0262 mL	4.0524 mL
10 mM		0.2026 mL	1.0131 mL	2.0262 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 12.5 mg/mL (25.33 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Aspoxicillin is a broad-spectrum antimicrobial agent against 68 isolates of <i>Actinobacillus pleuropneumoniae</i> with an MIC ₉₀ value of ≤ 0.05 µg/mL. Aspoxicillin has a long half-life in mouse serum of 55 minutes ^{[1][2]} .
IC₅₀ & Target	β-lactam
In Vitro	Aspoxicillin is a semisynthetic penicillin derivative ^[2] Aspoxicillin induces postantibiotic effects (PAEs) against <i>Staphylococcus aureus</i> Smith of 1.7 h in vitro ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Aspoxicillin induces PAEs against <i>Staphylococcus aureus</i> Smith of 5.2 h in vivo in a thigh infection model in neutropenic mice ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Yoshimura H, et al. Comparative in vitro activity of 16 antimicrobial agents against *Actinobacillus pleuropneumoniae*. *Vet Res Commun*. 2002 Jan;26(1):11-9.
- [2]. Oshida T, et al. Activity of sub-minimal inhibitory concentrations of aspoicillin in prolonging the postantibiotic effect against *Staphylococcus aureus*. *J Antimicrob Chemother*. 1990 Jul;26(1):29-38.
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Caution: Product has not been fully validated for medical applications. For research use only.

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