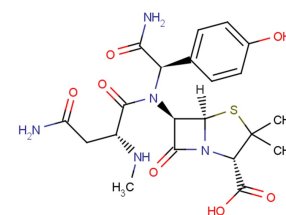


## Aspoxicillin

## Chemical Properties

CAS No.:	63358-49-6
Formula:	C <sub>21</sub> H <sub>27</sub> N <sub>5</sub> O <sub>7</sub> S
Molecular Weight:	493.53
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Aspoxicillin is a broad-spectrum antimicrobial agent against 68 isolates of <i>Actinobacillus pleuropneumoniae</i> (MIC <sub>90</sub> ≤ 0.05 µg/ml). Aspoxicillin has a long half-life in mouse serum of 55 minutes.
Targets(IC <sub>50</sub> )	microbe: None
In vitro	Aspoxicillin induces postantibiotic effects against <i>Staphylococcus aureus</i> Smith of 1.7 h in vitro [2].
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].

## Solubility Information

Solubility	H <sub>2</sub> O: 25 mg/mL (50.66 mM) ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.026 mL	10.131 mL	20.262 mL
5 mM	0.405 mL	2.026 mL	4.052 mL
10 mM	0.203 mL	1.013 mL	2.026 mL
50 mM	0.041 mL	0.203 mL	0.405 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

- Yoshimura H, et al. Comparative in vitro activity of 16 antimicrobial agents against *Actinobacillus pleuropneumoniae*. *Vet Res Commun.* 2002 Jan;26(1):11-9.
- Oshida T, et al. Activity of sub-minimal inhibitory concentrations of aspoxicillin in prolonging the postantibiotic effect against *Staphylococcus aureus*. *J Antimicrob Chemother.* 1990 Jul;26(1):29-38.

Inhibitors · Natural Compounds · Compound Libraries

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