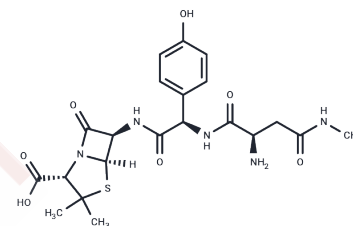


## Aspoxicillin

## 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  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Aspoxicillin, a broad-spectrum antimicrobial agent, demonstrates efficacy against 68 isolates of Actinobacillus pleuropneumoniae, with a minimum inhibitory concentration (MIC90) of $\leq 0.05 \mu\text{g/ml}$ . It exhibits a prolonged half-life of 55 minutes in mouse serum.
Targets(IC50)	Anti-infection, Antibacterial, Antibiotic
In vitro	Aspoxicillin induces postantibiotic effects against Staphylococcus aureus Smith of 1.7 h in vitro [2]. Growth suppression by sub-MICs of aspoxicillin was examined in vitro using either previously unexposed bacterial cells or cells which had been pre-exposed to twice the MIC of aspoxicillin for 2 h [2].
In vivo	Aspoxicillin has a long half-life in mouse serum of 55 minutes. Aspoxicillin induces PAEs against Staphylococcus aureus Smith of 5.2 h in vivo in a thigh infection model in neutropenic mice [2].

## Solubility Information

Solubility	H <sub>2</sub> O: 7.5 mg/mL (15.2 mM), Sonication is recommended. ( $< 1 \text{ mg/ml}$ refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
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
50 mM	0.0405 mL	0.2026 mL	0.4052 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### 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.

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