
Product Data Sheet

Product Name: Aspoxicillin

Cat. No.: GC63886

Chemical Properties

Cas. No. 63358-49-6

Formula C₂₁H₂₇N₅O₇S

M.Wt 493.53

Solubility Water : 25 mg/mL (50.66 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Aspoxicillin is a broad-spectrum antimicrobial agent against 68 isolates of *Actinobacillus pleuropneumoniae* with an MIC₉₀ value of $\leq 0.05 \mu\text{g/ml}$. Aspoxicillin has a long half-life in mouse serum of 55 minutes[1][2].

Aspoxicillin is a semisynthetic penicillin derivative[2] Aspoxicillin induces postantibiotic effects (PAEs) against *Staphylococcus aureus* Smith of 1.7 h in vitro[2].

Aspoxicillin induces PAEs against *Staphylococcus aureus* Smith of 5.2 h in vivo in a thigh infection model in neutropenic mice[2].

[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 aspoxicillin in prolonging the postantibiotic effect against *Staphylococcus aureus*. *J Antimicrob Chemother*. 1990 Jul;26(1):29-38.

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

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