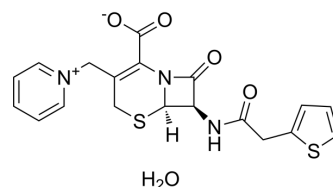


Cephaloridine hydrate

| | |
|---------------------------|--|
| Cat. No.: | HY-B2072A |
| CAS No.: | 102039-86-1 |
| Molecular Formula: | C ₁₉ H ₁₉ N ₃ O ₅ S ₂ |
| Molecular Weight: | 433.5 |
| Target: | Antibiotic; Bacterial |
| Pathway: | Anti-infection |
| Storage: | -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

H₂O : 125 mg/mL (288.35 mM; ultrasonic and warming and heat to 60°C)

| Preparing Stock Solutions | Solvent Concentration | Mass | | |
|---------------------------|-----------------------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| | 1 mM | 2.3068 mL | 11.5340 mL | 23.0681 mL |
| | 5 mM | 0.4614 mL | 2.3068 mL | 4.6136 mL |
| | 10 mM | 0.2307 mL | 1.1534 mL | 2.3068 mL |

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

BIOLOGICAL ACTIVITY

Description

Cephaloridine hydrate is a broad-spectrum antibacterial antibiotic. Cephaloridine has certain dose-related nephrotoxicity^[1] [2].

In Vitro

Cephaloridine hydrate can inhibit *Staphylococcus aureus* penicillin-sensitive strains, penicillin-resistant strains, *Streptococcus pyogenes*, *Streptococcus pneumoniae*, *Corynebacterium diphtheriae*, *Clostridium septicum*, and so on, with MICs of 0.05-1 µg/mL^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Cephaloridine hydrate (50-500 mg/kg; i.m.) exhibits dose-related nephrotoxicity in rabbits and monkeys^[2].

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REFERENCES

[1]. P. W. Muggleton, et al. Laboratory Evaluation of a New Antibiotic-Cephaloridine (Ceporin). Br Med J. 1964 Nov 14;2(5419):1234-7.

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

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