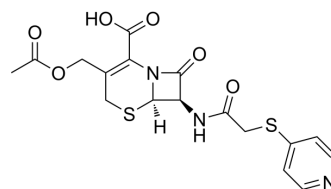


Cephapirin

Cat. No.:	HY-A0153
CAS No.:	21593-23-7
Molecular Formula:	C ₁₇ H ₁₇ N ₃ O ₆ S ₂
Molecular Weight:	423.46
Target:	Antibiotic; Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cephapirin (Cefapirin) is an ephalosporin antibiotic with broad-spectrum antimicrobial activity ^{[1][2][3]} .
IC ₅₀ & Target	β-lactam
In Vitro	Cephapirin (Cefapirin) inhibits <i>Staphylococcus aureus</i> by cephapirin concentrations of 0.09 to 12.5 μg/mL ^[2] . Cephapirin (Cefapirin) inhibits <i>S. epidermidis</i> , <i>S. viridans</i> , <i>S. pyogenes</i> , and <i>Diplococcus pneumonia</i> isolates by less than 1 μg/mL ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Cephapirin (Cefapirin) (200 mg; i.m.;cows) is effective for cows infected with <i>S. aureus</i> ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Bran JL, et al. Clinical and in vitro evaluation of cephapirin, a new cephalosporin antibiotic. *Antimicrob Agents Chemother.* 1972 Jan;1(1):35-40.
- [2]. Axelrod J, et, al. Cephapirin: in vitro antibacterial spectrum. *Appl Microbiol.* 1971 Nov;22(5):904-8.
- [3]. Roy JP, et, al. Efficacy of a 5-day extended therapy program during lactation with cephapirin sodium in dairy cows chronically infected with *Staphylococcus aureus*. *Can Vet J.* 2009 Dec;50(12):1257-62.

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

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