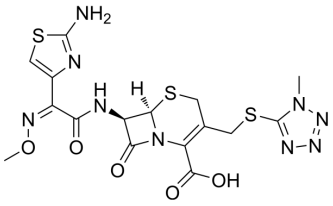
Cefmenoxime

Cat. No.:	HY-B0875A
CAS No.:	65085-01-0
Molecular Formula:	$C_{16}H_{17}N_9O_5S_3$
Molecular Weight:	511.56
Target:	Antibiotic; Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cefmenoxime (SCE-1365) is a new semisynthetic cephalosporin antibiotic. Cefmenoxime has antibacterial activity against a wide variety of gram-positive and gram-negative bacteria[1][2].
IC_{50} & Target	β-lactam
In Vitro	Cefmenoxime (SCE-1365) inhibits at least 90% of strains tested (MIC_{90}) ranged from 0.06 to 8 μg/mL for the Enterobacteriaceae[1]. Cefmenoxime (SCE-1365) inhibits MIC_{90} values for gram-positive cocci are 0.015 and ≤0.008 μg/mL for Streptococcus pneumoniae and Streptococcus pyogenes, respectively, and 2 μg/mL for S. aureus[1]. Cefmenoxime (SCE-1365) against Haemophilus influenzae, Neisseria gonorrhoeae and Neisseria meningitidis with MIC_{90} values ranging from ≤0.008 to 0.25 μg/mL[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Cefmenoxime (SCE-1365) (40 mg/kg; i.h.; daily, for 7 d; male Jcl:ICR mice) improves the survival rate of mice infected with lung bacteria[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Jcl:ICR mice[2]
Dosage:	40 mg/kg
Administration:	Subcutaneous injection; daily, for 7 days
Result:	Inhibited mortality rate of animals was 60% at a dose of 40 mg/kg.

REFERENCES

[1]. Stamm JM, et, al. Antimicrobial activity of cefmenoxime (SCE-1365). Antimicrob Agents Chemother. 1981 Mar;19(3):454-60.

[2]. Tatara O, et, al. Synergistic effects of romurtide and cefmenoxime against experimental Klebsiella pneumonia in mice. Antimicrob Agents Chemother. 1992 Jan;36(1):167-71.

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

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