Tosufloxacin

Cat. No.:	HY-B1802	
CAS No.:	100490-36-6	F
Molecular Formula:	$C_{19}H_{15}F_{3}N_{4}O_{3}$	
Molecular Weight:	404.34	F F
Target:	Antibiotic; Bacterial	
Pathway:	Anti-infection	F H OH
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	öö

$_{9}H_{15}F_{3}N_{4}O_{3}$		
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Tosufloxacin (A-61827) is an orally active fluoroquinolone antibiotic. Tosufloxacin activity against gram-positive and gram-negative bacteria ^{[1][2]} .	shows a broad spectrum of antibacterial	

activity against gr IC₅₀ & Target Quinolone In Vitro Tosufloxacin tosylate hydrate (T-3262) (0.05-3.13 µg/mL; 18 h) shows antibacterial activities against S. aureus, Staphylococcus epidermidis, streptococci, enterococci, Bacteroides fragilis, Clostridium difficile, and Clostridium perfringens^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay^[2] Cell Line: S. aureus, Staphylococcus epidermidis, streptococci, enterococci, Bacteroides fragilis, Clostridium difficile, and Clostridium perfringens Concentration: 0.05-3.13 µg/mL Incubation Time: 18 hours Result: Showed MIC₉₀s (MICs for 90% of the isolates tested) ranging from 0.05 to 1.56 μ g/mL for S. aureus, Staphylococcus epidermidis, streptococci, and enterococci. Showed MIC₉₀s of 1.56, 3.13, and 0.20 µg/mL for Bacteroides fragilis, Clostridium difficile, and Clostridium perfringens, respectively. In Vivo Tosufloxacin tosylate hydrate (T-3262) (oral gavage; 0.16-13.39 mg/kg; once) treatment shows antibacterial activity against S. aureus, E. coli, and P. aeruginosa in vivo^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Animal Model: Male Slc:ICR mice infected with S. aureus^[2] Dosage: 1.27-2.15 mg/kg

Oral gavage; 1.27-2.15 mg/kg; once

Product Data Sheet

Administration:

BIOLOGICAL ACTIVITY

Description

Result:	Showed 50% effective dose (ED ₅₀) of 1.62 mg/kg (body weight) at 7 days after infection. Showed MIC value of 0.0125 μ g/mL.	
Animal Model:	Male Slc:ICR mice infected with E. coli ^[2]	
Dosage:	0.16-0.30 mg/kg	
Administration:	Oral gavage; 0.16-0.30 mg/kg; once	
Result:	Showed 50% effective dose (ED_{50}) of 0.22 mg/kg (body weight) at 7 days after infection. Showed MIC value of 0.0125 $\mu g/mL$	
Animal Model:	Male Slc:ICR mice infected with P. aeruginosa ^[2]	
Dosage:	7.66-13.39 mg/kg	
Administration:	Oral gavage; 7.66-13.39 mg/kg; once	
Result:	Showed 50% effective dose (ED ₅₀) of 10.13 mg/kg (body weight) at 7 days after infection. Showed MIC value of 0.78 μg/mL.	

CUSTOMER VALIDATION

- PLoS Negl Trop Dis. 2019 Aug 20;13(8):e0007681.
- Curr Microbiol. 2021 Dec 14;79(1):12.

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REFERENCES

[1]. Chu DT, et al. Synthesis and biological properties of A-71497: a prodrug of tosufloxacin. Drugs Exp Clin Res. 1990;16(9):435-43.

[2]. Fujimaki K, et al. In vitro and in vivo antibacterial activities of T-3262, a new fluoroquinolone. Antimicrob Agents Chemother. 1988 Jun;32(6):827-33.

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

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