Balofloxacin dihydrate

Cat. No.:	HY-B0159A	0 0
CAS No.:	151060-21-8	F, , L, L, au
Molecular Formula:	C ₂₀ H ₂₈ FN ₃ O ₆	H OH
Molecular Weight:	425.45	
Target:	Bacterial; Antibiotic	\checkmark \checkmark
Pathway:	Anti-infection	н ^{_0} `н
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	H ^{∠O} `H

BIOLOGICAL ACTIVITY			
Description	Balofloxacin dihydrate (Q-35 dihydrate) is an orally active fluoroquinolone antibiotic with broad-spectrum antibacterial activity against gram-negative, gram-positive, and anaerobic bacteria. Balofloxacin dihydrate can be used for the research of respiratory, intestinal, and urinary tract infections ^{[1][2]} .		
IC ₅₀ & Target	Quinolone		
In Vitro	Balofloxacin (25 mg/mL; 1 h) decreases the growth of S. aureus that adhered to human corneal epithelial cells (HCECs) ^[2] . Balofloxacin inhibits the S. aureus ATCC 25923, with a MIC of 0.125 mg/mL ^[2] . Balofloxacin (0.05-500 μg/mL; 72 h) does not induce toxicity on the HCECs at a low concentration, such as 0.625 mg/mL ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	Balofloxacin (200 mg/kg/day; p.o. for 5 d) reduces the counts of viable M. pneumonia in the lungs of hamsters ^[3] . Balofloxacin eye drops (0.5%) is effective in S. aureus bacterial keratitis of rabbits ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

REFERENCES

[1]. Alksne L. Balofloxacin Choongwae. Curr Opin Investig Drugs. 2003 Feb;4(2):224-9.

[2]. Jiang H, et, al. In vitro and in vivo effectiveness evaluation of balofloxacin in experimental Staphylococcus aureus keratitis. J Ocul Pharmacol Ther. 2014 Aug;30(6):482-8.

[3]. Gohara Y, et, al. In vitro and in vivo activities of Q-35, a new fluoroquinolone, against Mycoplasma pneumonia. Antimicrob Agents Chemother. 1993 Sep;37(9):1826-30.

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

Tel: 609-228-6898 Fa

Fax: 609-228-5909

9 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

Product Data Sheet

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