Product Data Sheet

Product Name: (R)-Ofloxacin
Cat. No.: GC34990

Chemical Properties

Cas. No.	100986-86-5		
SMILES	O=C(C(C1=O)=CN2[C@H](C)COC3=C(N4CCN(C)CC4)C(F)=CC1=C23)O		
Formula	$C_{18}H_{20}FN_3O_4$	M.Wt	361.37
Solubility	DMF: 20 mg/ml,DMSO: 20 mg/ml,Ethanol: 1 mg/ml,PBS (pH 7.2): 10 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	(R)-Ofloxacin		

Background

(R)-Ofloxacin is a fluoroquinolone antibiotic and the (R) isomer of the antibiotics ofloxacin and levofloxacin .[1] It is active against certain Gram-positive and Gram-negative bacteria, including *E. coli*, *P. aeruginosa* strains 32104 and 32122, *S. aureus* strains 209P and Smith, and *S. epidermis* strain 56556 (MICs = 0.78, 12.5, 6.25, 25, 12.5, and 25 ?g/ml, respectively) but not *S. epidermis* strain 56500, *S. pyogenes*, or *S. faecalis* (MICs = >100 ?g/ml for all).[2] (R)-Ofloxacin inhibits *E. coli* DNA gyrase with an IC_{50} value of 75 ?g/ml, which is approximately 30- and 50-fold lower than inhibition by ofloxacin and levofloxacin, respectively.[1]

1.Morrissey, I., Hoshino, K., Sato, K., et al.Mechanism of differential activities of ofloxacin enantiomersAntimicrob. Agents Chemother.40(8)1775-1784(1996) 2.Hayakawa, I., Atarashi, S., Yokohama, S., et al.Synthesis and antibacterial activities of optically active ofloxacinAntimicrob. Agents Chemother.29(1)163-164(1986)

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