Product Data Sheet

Product Name: Clinafloxacin (AM1091)
Cat. No.: GC16681

Chemical Properties

Cas. No.	105956-97-6		
Chemical Name	7-(3-aminopyrrolidin-1-yl)-8-chloro-1-cyclopropyl-6-fluoro-4-oxoquinoline-3-carboxylic acid		
SMILES	C1CC1N2C=C(C(=O)C3=CC(=C(C(=C32)Cl)N4CCC(C4)N)F)C(=O)O		
Formula	$C_{17}H_{17}ClFN_3O_3$	M.Wt	365.8
Solubility	≥ 3.66mg/mL in DMSO	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	Clinafloxacin (AM1091)		

Background

Clinafloxacin(PD-127391) is a fluoroquinolone antibiotic.Target: AntibacterialClinafloxacin is a broad-spectrum antibiotic of the quinolone carboxylic acid category currently in development for intravenous and oral therapy of serious infections [1]. Clinafloxacin is a novel fluoroquinolone with potent broad-spectrum in vitro activity against gram-positive, gram-negative, and anaerobic pathogens. Clinafloxacin is highly active against S. pneumoniae 7785 (MIC, 0.125 μg/mL), and neither gyrA nor parC quinolone resistance mutations alone have much effect on this activity [2]. Clinafloxacin is identified as the most active fluoroquinolone against S. pneumoniae when compared with ofloxacin, levofloxacin, sparfloxacin, grepafloxacin, and trovafloxacin and is currently being evaluated as an antipneumococcal agent [3].

References:
[1]. Humphrey, G.H., et al., Pharmacokinetics of clinafloxacin enantiomers in humans. J Clin Pharmacol, 1999. 39(11): p. 1143-50.

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[2]. Pan, X.S. and L.M. Fisher, DNA gyrase and topoisomerase IV are dual targets of clinafloxacin action in Streptococcus pneumoniae. Antimicrob Agents Chemother, 1998. 42(11): p. 2810-6.
[3]. Jorgensen, J.H., et al., Activities of clinafloxacin, gatifloxacin, gemifloxacin, and trovafloxacin against recent clinical isolates of levofloxacin-resistant Streptococcus pneumoniae. Antimicrob Agents Chemother, 2000. 44(11): p. 2962-8.

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