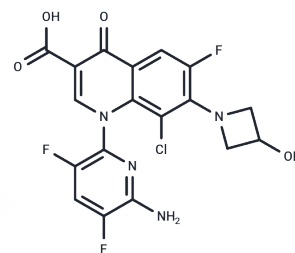


Delafloxacin

Chemical Properties

CAS No. :	189279-58-1
Formula:	C ₁₈ H ₁₂ ClF ₃ N ₄ O ₄
Molecular Weight:	440.76
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Delafloxacin (WQ-3034) (RX-3341, ABT-492) is a fluoroquinolone antibiotic agent. It has potent inhibitory against levofloxacin-resistant Streptococcus pneumoniae strains (MIC: 0.0078-0.125 µg/ml).
Targets(IC50)	Antibacterial,Antibiotic

Solubility Information

Solubility	DMSO: 25 mg/mL (56.72 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2688 mL	11.344 mL	22.6881 mL
5 mM	0.4538 mL	2.2688 mL	4.5376 mL
10 mM	0.2269 mL	1.1344 mL	2.2688 mL
50 mM	0.0454 mL	0.2269 mL	0.4538 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Gunderson SM, Hayes RA, Quinn JP, In vitro pharmacodynamic activities of ABT-492, a novel quinolone, compared to those of levofloxacin against *Streptococcus pneumoniae*, *Haemophilus influenzae*, and *Moraxella catarrhalis*. *Antimicrob Agents Chemother*. 2004 Jan;48(1):203-8.

Kong Y, Geng Z, Jiang G, et al. Comparison of the in vitro antibacterial activity of ofloxacin, levofloxacin, moxifloxacin, sitafloxacin, flaxloxacil, and delafloxacin against *Mycobacterium tuberculosis* strains isolated in China. *Heliyon*. 2023

Goldstein EJ, Citron DM, Merriam CV, In vitro activities of ABT-492, a new fluoroquinolone, against 155 aerobic and 171 anaerobic pathogens isolated from antral sinus puncture specimens from patients with sinusitis. *Antimicrob Agents Chemother*. 2003 Sep;47(9):32008-11.

Nilius AM, Shen LL, Hensey-Rudloff D, In vitro antibacterial potency and spectrum of ABT-492, a new fluoroquinolone. *Antimicrob Agents Chemother*. 2003 Oct;47(10):3260-9.

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