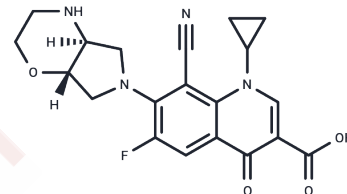


Finafloxacin

Chemical Properties

CAS No. :	209342-40-5
Formula:	C ₂₀ H ₁₉ FN ₄ O ₄
Molecular Weight:	398.39
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Finafloxacin, a fluoroquinolone antimicrobial agent from a new 8-cyano subclass, is most effective in slightly acidic environments (pH 5.0-6.0), a condition where other fluoroquinolones typically reduce in activity. It selectively targets bacterial type II topoisomerases, such as DNA gyrase and DNA topoisomerase IV, making it suitable for treating serious bacterial infections particularly in acidic contexts, including urinary tract infections (UTIs) and Helicobacter pylori infections.
Targets(IC50)	Others, Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: 6.4 mg/mL (16.06 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5101 mL	12.5505 mL	25.101 mL
5 mM	0.502 mL	2.5101 mL	5.0202 mL
10 mM	0.251 mL	1.2551 mL	2.5101 mL
50 mM	0.0502 mL	0.251 mL	0.502 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

McKeage K. Finafloxacin: first global approval. *Drugs*. 2015 Apr;75(6):687-93.

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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