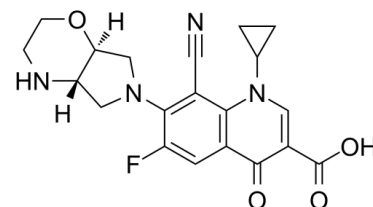


Data Sheet

Product Name:	Finafloxacin
Cat. No.:	CS-5557
CAS No.:	209342-40-5
Molecular Formula:	C ₂₀ H ₁₉ FN ₄ O ₄
Molecular Weight:	398.39
Target:	Bacterial
Pathway:	Anti-infection
Solubility:	DMSO : 6.4 mg/mL (16.06 mM; Need ultrasonic and warming)



BIOLOGICAL ACTIVITY:

Finafloxacin is a fluoroquinolone antimicrobial agent that exhibits optimum efficacy in slightly acidic environments. Target: Antibacterial Finafloxacin is a pH-activated fluoroquinolone (belonging to a new 8-cyano subclass) to treat serious bacterial infections associated with an acidic environment, including urinary tract infections (UTIs) and *Helicobacter pylori* infections. Finafloxacin exhibits optimal efficacy in slightly acidic environments (pH 5.0-6.0), under which other fluoroquinolones lose activity. Finafloxacin is highly selective for bacterial type II topoisomerases, including DNA gyrase and DNA topoisomerase IV. [1]

References:

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

CAIndexNames:

3-Quinolinecarboxylic acid, 8-cyano-1-cyclopropyl-6-fluoro-7-[(4aS,7aS)-hexahydroindolizino[3,4-b]-1,4-oxazin-6(2H)-yl]-1,4-dihydro-4-oxo-

SMILES:

O=C(C1=CN(C2CC2)C3=C(C=C(F)C(N4C[C@]5([H])OCCN[C@@]5([H])C4)=C3C#N)C1=O)O

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

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