Fluoroquinolonic acid

Cat. No.: HY-W002677

CAS No.: 86393-33-1

Molecular Formula: $C_{13}H_9ClFNO_3$

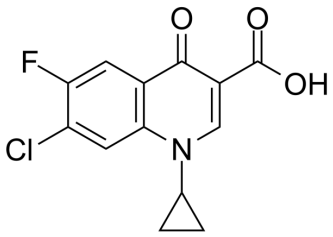
Molecular Weight: 281.67

Target: Antibiotic; Bacterial

Pathway: Anti-infection

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 16.67 mg/mL (59.18 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5503 mL	17.7513 mL	35.5025 mL
	5 mM	0.7101 mL	3.5503 mL	7.1005 mL
	10 mM	0.3550 mL	1.7751 mL	3.5503 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.67 mg/mL (5.93 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Fluoroquinolonic acid is a bacteriostatic antibiotic. Fluoroquinolonic acid has broad-spectrum activity against Gram-positive and Gram-negative bacteria[1].

REFERENCES

[1]. Ching C, et, al. Impact of ciprofloxacin impurities on bacterial growth, antibiotic resistance development and content assays. Lett Appl Microbiol. 2021 Aug;73(2):220-228.

[2]. Ching C, et, al. Impact of ciprofloxacin impurities on bacterial growth, antibiotic resistance development and content assays. Lett Appl Microbiol. 2021 Aug;73(2):220-228.

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

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