# Fluoroquinolonic acid

**Cat. No.:** HY-W002677

**CAS No.:** 86393-33-1

**Molecular Formula:** $C_{13}H_9ClFNO_3$

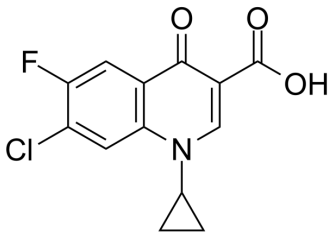
**Molecular Weight:** 281.67

**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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