Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Flumequine

Catalog No: tcsc2747

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
42835-25-6

Formula:
$C_{14}H_{12}FNO_3$

Pathway:
Cell Cycle/DNA Damage;Anti-infection

Target:
Topoisomerase;Bacterial

Purity / Grade:
>98%

Solubility:
DMSO : 7.69 mg/mL (29.44 mM; Need ultrasonic)

Alternative Names:
R-802

Observed Molecular Weight:
261.25

Product Description

Flumequine is a quinolone antibiotic, and acts as a **topoisomerase II** inhibitor, with an $\mathbf{IC_{50}}$ of 15 μM (3.92 μg/mL).

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IC50 & Target: IC50: 15 μM (Topoisomerase II)[1]

In Vitro: Flumequine is a topoisomerase II inhibitor, with an IC_{50} of 3.92 μg/mL, and less potently inhibits Gyrase, with an IC_{50} of 1764 μg/mL. Flumequine (0-625 μg/mL) increases migration of nuclear DNA from CHL cells[1]. Flumequine inhibits Spanish field isolates of *B. hyodysenteriae* with MIC_{50} and MIC_{90} of 50 and 100 μg/mL, and MBC_{50} and MBC_{90} of 50, 200 μg/mL, respectively[2]. Flumequine suppresses *A. salmonicida* isolates with MIC ranging from 0.06 to 32 μg/mL[3].

In Vivo: Flumequine (0-500 mg/kg, p.o.) causes dose-related DNA damage in the stomach, colon, and urinary bladder of mice, 1 and 3 h but not 24 h after its administration[1].