Data Sheet (Cat.No.T6349L)

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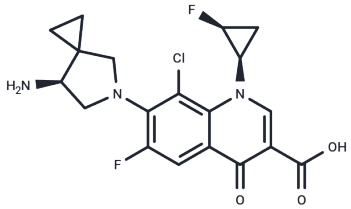
Sitafloxacin

Chemical Properties



CAS No. : 127254-12-0

Formula: C19H18ClF2N3O3

Molecular Weight: 409.81

Appearance: no data available

Storage: keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Sitafloxacin (Sitafloxacin anhydrous) is an orally active fluoroquinolone antibiotic with broad-spectrum antimicrobial activity.Sitafloxacin has been used in the study of respiratory tract infections and urinary tract infections.
Targets(IC50)	Antibiotic
In vitro	Sitafloxacin (DU6859a) demonstrates potent antibacterial activity, with MIC values of 0.03 mg/L for quinolone-susceptible strains of Streptococcus pneumoniae EG 00093 and EG 00218, respectively [1].
In vivo	In BALB/c female mice, Sitafloxacin (12.5, 25, 50, and 100 mg/kg; oral gavage; once daily for 4 weeks) inhibits the growth of Mycobacterium ulcerans and the cells of M. ulcerans[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4402 mL	12.2008 mL	24.4016 mL
5 mM	0.488 mL	2.4402 mL	4.8803 mL
10 mM	0.244 mL	1.2201 mL	2.4402 mL
50 mM	0.0488 mL	0.244 mL	0.488 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.

Reference

Okumura R, et al. Dual-targeting properties of the 3-aminopyrrolidyl quinolones, DC-159a and sitafloxacin, against DNA gyrase and topoisomerase IV: contribution to reducing in vitro emergence of quinolone-resistant

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