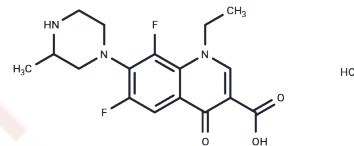


Lomefloxacin hydrochloride

Chemical Properties

CAS No. :	98079-52-8
Formula:	C ₁₇ H ₂₀ ClF ₂ N ₃ O ₃
Molecular Weight:	387.81
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Lomefloxacin hydrochloride (Okacyn) inhibits DNA gyrase, a type II topoisomerase involved in the induction or relaxation of supercoiling during DNA replication. This inhibition leads to a decrease in DNA synthesis during bacterial replication, resulting in cell growth inhibition and eventually cell lysis. Lomefloxacin Hydrochloride is the hydrochloride salt form of lomefloxacin, a synthetic broad-spectrum fluoroquinolone with antibacterial activity.
Targets(IC50)	Apoptosis, Antibacterial, Antibiotic, ROS, Topoisomerase

Solubility Information

Solubility	H ₂ O: 10 mg/mL (25.79 mM), Sonication is recommended. DMSO: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5786 mL	12.8929 mL	25.7858 mL
5 mM	0.5157 mL	2.5786 mL	5.1572 mL
10 mM	0.2579 mL	1.2893 mL	2.5786 mL
50 mM	0.0516 mL	0.2579 mL	0.5157 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Takenouchi T, et al. Antimicrob Agents ChemOthers. 1995 Jul;39(7):1414-8.

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