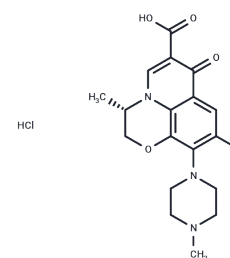


Levofloxacin hydrochloride

Chemical Properties

CAS No. :	177325-13-2
Formula:	C ₁₈ H ₂₁ ClFN ₃ O ₄
Molecular Weight:	397.8
Storage:	Store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Levofloxacin is a broad-spectrum, third-generation fluoroquinolone antibiotic and optically active L-isomer of ofloxacin with antibacterial activity. Levofloxacin diffuses through the bacterial cell wall and acts by inhibiting DNA gyrase (bacterial topoisomerase II), an enzyme required for DNA replication, RNA transcription, and repair of bacterial DNA. Inhibition of DNA gyrase activity leads to blockage of bacterial cell growth.
Targets(IC50)	Antibacterial,Antibiotic,DNA gyrase,DNA/RNA Synthesis,Topoisomerase,Virus Protease

Solubility Information

Solubility	DMSO: 7.14 mg/mL (17.95 mM),Sonication is recommended. H ₂ O: 100 mg/mL (251.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5138 mL	12.5691 mL	25.1383 mL
5 mM	0.5028 mL	2.5138 mL	5.0277 mL
10 mM	0.2514 mL	1.2569 mL	2.5138 mL
50 mM	0.0503 mL	0.2514 mL	0.5028 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

Schmitz FJ, et al. J Antimicrob ChemOthers. 1998 Apr;41(4):481-4.

Pradeep, A.R., et al., Clinical and microbiological effects of levofloxacin in the treatment of chronic periodontitis: a randomized, placebo-controlled clinical trial. J Investig Clin Dent, 2014.

Siva, R., et al., Effect of levofloxacin on neutrophilic airway inflammation in stable COPD: a randomized, double-blind, placebo-controlled trial. Int J Chron Obstruct Pulmon Dis, 2014. 9: p. 179-86.

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