



LKT Laboratories, Inc.

Ciprofloxacin Hydrochloride

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Product Information

Product ID C3263

CAS No. 86393-32-0

Chemical Name 1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-7-(1-piperazinyl)-3-quinolinecarboxylic acid monohydrochloride

Synonym CiproR, Ciflan, Floxacipron, Proxacin

Formula C₁₇H₁₈FN₃O₃ · HCl · H₂O

Formula Wt. 385.82

Melting Point 314-324 °C

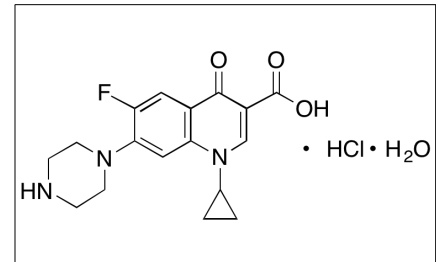
Purity ≥98%

Solubility Soluble in water (3.5 g/100 ml), ethanol (1.6 mg/ml). Reconstitute with suitable solvent. Aliquot and store at -20°C. Solutions should be

Store Temp 4 °C

Ship Temp Ambient

Description Ciprofloxacin is a second generation fluoroquinolone antibiotic that exhibits antibacterial activity against both gram negative and gram positive bacteria. Ciprofloxacin inhibits DNA gyrase and topoisomerase IV, preventing DNA replication.



Bulk quantities available upon request

Product ID	Size
C3263	5 g
C3263	25 g
C3263	50 g

References Rajendram M, Hurley KA, Foss MH, et al. Gyramides Prevent Bacterial Growth by Inhibiting DNA Gyrase and Altering Chromosome Topology. ACS Chem Biol. 2014 Apr 22. [Epub ahead of print]. PMID: 24712739.

Olyphant CM, Green GM. Quinolones: a comprehensive review. Am Fam Physician. 2002 Feb 1;65(3):455-64. PMID: 11858629.

Drlica K, Zhao X. DNA gyrase, topoisomerase IV, and the 4-quinolones. Microbiol Mol Biol Rev. 1997 Sep;61(3):377-92. PMID: 9293187.

Aldred KJ, McPherson SA, Wang P, et al. Drug interactions with Bacillus anthracis topoisomerase IV: biochemical basis for quinolone action and resistance. Biochemistry. 2012 Jan 10;51(1):370-381. PMID: 22126453.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.