



LKT Laboratories, Inc.

Ciprofloxacin

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID C3262

CAS No. 85721-33-1

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

Synonym Bay q 3939

Formula C₁₇H₁₈FN₃O₃

Formula Wt. 331.34

Melting Point 255-257°C(dec.)

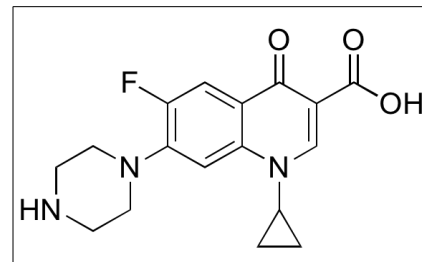
Purity ≥98%

Solubility Insoluble in water. Soluble in dilute hydrochloric acid. Soluble in hot DMSO or hot methanol.

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
C3262	5 g
C3262	25 g
C3262	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.

Oliphant 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.