



LKT Laboratories, Inc.

Levofloxacin Hemihydrate

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

Product Information

Product ID L1785

CAS No.

Chemical Name

Synonym S-(-)-Ofloxacin,

Formula $(C_{18}H_{20}FN_3O_4)_2 \cdot H_2O$

Formula Wt. 370.4

Melting Point

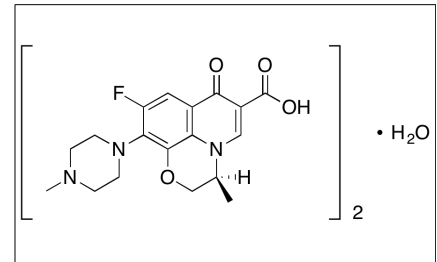
Purity $\geq 98\%$

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Levofloxacin is the S-(-) isomer of ofloxacin. Levofloxacin is a fluoroquinolone antibiotic that inhibits DNA gyrase and topoisomerase IV; it exhibits antibacterial efficacy against gram negative and gram positive bacteria. Levofloxacin also displays anticancer activity, as when complexed with gold(III), it binds DNA and inhibits cellular proliferation in several cancer cell lines.



Bulk quantities available upon request

Product ID Size

L1785 500 mg

L1785 1 g

L1785 5 g

References Fu Y, Zhang W, Wang H, et al. Specific patterns of *gyrA* mutations determine the resistance difference to ciprofloxacin and levofloxacin in *Klebsiella pneumoniae* and *Escherichia coli*. *BMC Infect Dis*. 2013 Jan 7;13:8. PMID: 23295059.

Gouvea LR, Garcia LS, Lachter DR, et al. Atypical fluoroquinolone gold(III) chelates as potential anticancer agents: relevance of DNA and protein interactions for their mechanism of action. *Eur J Med Chem*. 2012 Sep;55:67-73. PMID: 22835721.

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

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