



LKT Laboratories, Inc.

R-(+)-Ofloxacin

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

Product Information

Product ID O2146

CAS No. 100986-86-5

Chemical Name (R)-9-Fluoro-2,3-dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benz-oxazine-6-carboxylic acid

Synonym

Formula $C_{18}H_{20}FN_3O_4$

Formula Wt. 361.37

Melting Point 225-227°C

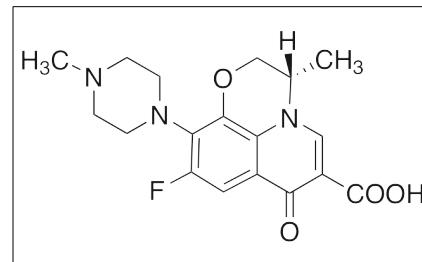
Purity ≥98%

Solubility

Store Temp Ambient

Ship Temp Ambient

Description R-(+)-Ofloxacin is the optically active isomer of ofloxacin, a second generation fluoroquinolone antibiotic. This compound is often given as a topical treatment for ocular and otic infections. Like other fluoroquinolones, ofloxacin inhibits DNA gyrase and topoisomerase IV; it exhibits antibacterial efficacy against both gram positive and gram negative bacteria. Under UV light, ofloxacin exhibits phototoxicity, disrupting the mitochondrial membrane potential and inducing ROS-mediated DNA damage.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
O2146	1 mg	\$225.90
O2146	5 mg	\$989.50
O2146	10 mg	\$1735.80

References Dwivedi A, Mujtaba SF, Yadav N, et al. Cellular and molecular mechanism of ofloxacin induced apoptotic cell death under ambient UV-A and sunlight exposure. *Free Radic Res.* 2014 Mar;48(3):333-46. PMID: 24286391.

Pantel A, Petrella S, Matrat S, et al. DNA gyrase inhibition assays are necessary to demonstrate fluoroquinolone resistance secondary to gyrB mutations in Mycobacterium tuberculosis. *Antimicrob Agents Chemother.* 2011 Oct;55(10):4524-9. PMID: 21768507.

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.