



LKT Laboratories, Inc.

Ofloxacin

Phone: 888-558-5227

651-644-8424

Fax: 888-558-7329

Email: getinfo@lctlabs.com

Web: lctlabs.com

Product Information

Product ID O2144

CAS No. 82419-36-1

Chemical Name 7H-Pyrido(1,2,3-de)-1,4-benzoxazine-6-carboxylic acid, 2,3-dihydro-9-fluoro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-, (+/-)-

Synonym Floxin, Ofloxacin, Tarivid

Formula C₁₈H₂₀FN₃O₄

Formula Wt. 361.37

Melting Point 250-257° C (dec.)

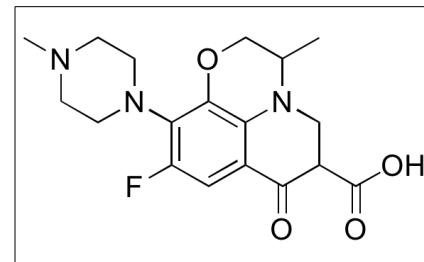
Purity ≥98%

Solubility Slightly soluble in water, DMSO, methanol, chloroform. Soluble in 1M NaOH (50 mg/mL).

Store Temp Ambient

Ship Temp Ambient

Description Ofloxacin is 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.



Bulk quantities available upon request

Product ID	Size
O2144	5 g
O2144	10 g
O2144	50 g

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.