



LKT Laboratories, Inc.

Ofloxacin Hydrochloride

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Product Information

Product ID O2145

CAS No. 118120-51-7

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

Synonym Ofloxacin, Exocin, Floxil, Oflocet, Tarivid, Visiren

Formula $C_{18}H_{20}FN_3O_4 \cdot HCl$

Formula Wt. 397.83

Melting Point 250-257°C

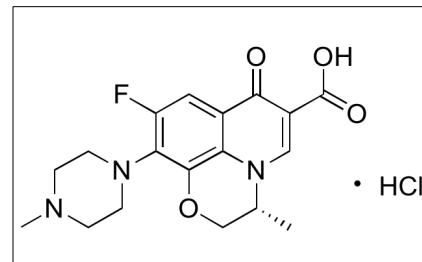
Purity ≥98%

Solubility Soluble in water.

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 topoisomerase IV and DNA gyrase; 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
O2145	1 g	\$45.30
O2145	5 g	\$97.70
O2145	10 g	\$150.40
O2145	50 g	\$450.80

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.