



# LKT Laboratories, Inc.

## Norfloxacin Hydrochloride

Phone: 888-558-5227  
651-644-8424  
Fax: 888-558-7329  
Email: [getinfo@lktlabs.com](mailto:getinfo@lktlabs.com)  
Web: [lktlabs.com](http://lktlabs.com)

### Product Information

Product ID N5770

CAS No. 104142-93-0; 68077-27-0

#### Chemical Name

Synonym Norfloxacin (Hydrochloride)

Formula  $C_{16}H_{18}FN_3O_3 \cdot HCl$

Formula Wt. 355.79

Melting Point

Purity  $\geq 98\%$

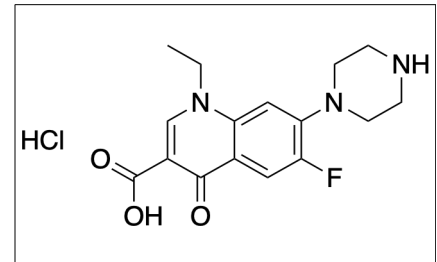
Solubility

Store Temp Ambient

Ship Temp Ambient

#### Description

Norfloxacin Hydrochloride is the HCl salt of the antibiotic Norfloxacin. Norfloxacin is a first generation fluoroquinolone antibiotic that exhibits antibacterial, anti-inflammatory, and anticancer activities. Norfloxacin inhibits DNA gyrase and topoisomerase IV; it is clinically used to treat urinary tract infections and prostatitis. In neutrophils from cirrhotic subjects, norfloxacin increases expression of IL-10 and heme oxygenase 1 (HO-1) and decreases expression of pro-inflammatory cytokines. Additionally, when complexed with gold(III), norfloxacin binds DNA and inhibits cellular proliferation in several cancer cell lines.



### Pricing and Availability

*Bulk quantities available upon request*

| Product ID | Size  | List Price |
|------------|-------|------------|
| N5770      | 1 g   | \$45.00    |
| N5770      | 5 g   | \$80.00    |
| N5770      | 25 g  | \$100.00   |
| N5770      | 100 g | \$150.00   |

**References** 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.

Gómez-Hurtado I, Zapater P, Bellot P, et al. Interleukin-10-mediated heme oxygenase 1-induced underlying mechanism in inflammatory down-regulation by norfloxacin in cirrhosis. *Hepatology.* 2011 Mar;53(3):935-44. PMID: 21374664.

Padeřskaia EN. Norfloxacin: more than 20 years of clinical use, the results and place among fluoroquinolones in modern chemotherapy for infections. *Antibiot Khimioter.* 2003;48(9):28-36. PMID: 15002177.

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

Ho YB, Zakaria MP, Latif PA, Saari N. Occurrence of veterinary antibiotics and progesterone in broiler manure and agricultural soil in Malaysia. *Sci Total Environ.* 2014 Aug 1;488-489:261-267. PMID: 24836135.

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