



LKT Laboratories, Inc.

## Nadifloxacin

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### Product Information

**Product ID** N0114

**CAS No.** 124858-35-1

**Chemical Name** (+-)-9-Fluoro-6,7-dihydro-8-(4-hydroxypiperidino)-5-methyl-1-oxo-1H,5H-benzo(ij)quinolizine-2-carboxylic acid

**Synonym** Jinofloxacin, Acuatim

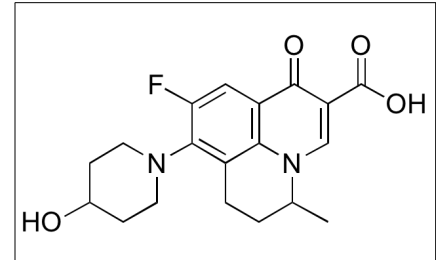
**Formula** C<sub>19</sub>H<sub>21</sub>FN<sub>2</sub>O<sub>4</sub>

**Formula Wt.** 360.38

**Melting Point** 245-247° C

**Purity** ≥98%

**Solubility** Soluble in DMSO.



**Bulk quantities available upon request**

Product ID	Size
N0114	25 mg
N0114	100 mg
N0114	500 mg

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Nadifloxacin is a fluoroquinolone antibiotic that exhibits antibacterial efficacy against both gram positive and gram negative bacteria; it inhibits DNA gyrase and is clinically used to treat acne vulgaris. Nadifloxacin inhibits *Propionibacterium*-stimulated PBMC production of IL-12, IFN- $\gamma$ , and other cytokines. Nadifloxacin also decreases production of oxidative radicals by neutrophils.

**References** Takenaka Y, Hayashi N, Takeda M, et al. Glycolic acid chemical peeling improves inflammatory acne eruptions through its inhibitory and bactericidal effects on *Propionibacterium* acnes. *J Dermatol.* 2012 Apr;39(4):350-4. PMID: 21950544.

Kuwahara K, Kitazawa T, Kitagaki H, et al. Nadifloxacin, an antiacne quinolone antimicrobial, inhibits the production of proinflammatory cytokines by human peripheral blood mononuclear cells and normal human keratinocytes. *J Dermatol Sci.* 2005 Apr;38(1):47-55. PMID: 15795123.

Akamatsu H, Sasaki H, Kurokawa I, et al. Effect of nadifloxacin on neutrophil functions. *J Int Med Res.* 1995 Jan-Feb;23(1):19-26. PMID: 7774755.

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