



LKT Laboratories, Inc.

Sparfloxacin

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Product Information

Product ID S6000

CAS No. 110871-86-8

Chemical Name rel-5-Amino-1-cyclopropyl-7-[(3R,5S)-3,5-dimethyl-1-piperazinyl]-6,8-difluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid

Synonym Zagam, Spara

Formula C₁₉H₂₂F₂N₄O₃

Formula Wt. 392.40 g/mol

Melting Point 266-269 °C

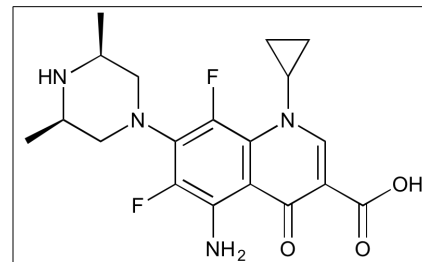
Purity ≥98%

Solubility Soluble in alcohol and chloroform. Water(0.11 g/100 ml)

Store Temp Ambient

Ship Temp Ambient

Description Sparfloxacin is a fluoroquinolone antibiotic that is clinically used to treat respiratory infections; it displays antibacterial efficacy by inhibiting DNA gyrase and topoisomerase IV. Gold(III)-chelated sparfloxacin inhibits proliferation of lymphoma, leukemia, melanoma, and lung cancer cells, displaying anticancer activity.



Bulk quantities available upon request

Product ID **Size**

S6000 500 mg

S6000 1 g

S6000 5 g

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.

Harding I, Simpson I. Fluoroquinolones: is there a different mechanism of action and resistance against *Streptococcus pneumoniae*? *J Chemother.* 2000 Oct;12 Suppl 4:7-15. PMID: 11131958.

Schentag JJ. Sparfloxacin: a review. *Clin Ther.* 2000 Apr;22(4):372-87; PMID: 10823360.

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