



LKT Laboratories, Inc.

Fleroxacin

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Product Information

Product ID F4518

CAS No. 79660-72-3

Chemical Name AM-833; Megalocin; Megalone; Quinodis

Synonym AM-833, Megalocin, Megalone, Quinodis

Formula C₁₇H₁₈F₃N₃O₃

Formula Wt. 369.34

Melting Point 264-266 °C

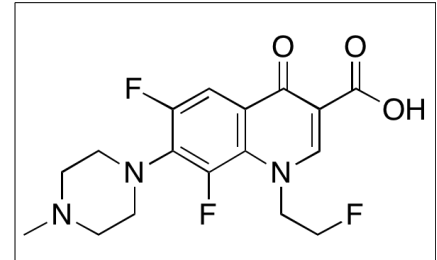
Purity ≥98%

Solubility Soluble in acid, alkali, not
soluble in water

Store Temp Ambient

Ship Temp Ambient

Description Fleroxacin is a fluoroquinolone antibiotic that displays antibacterial activity against gram positive and gram negative bacteria. Fleroxacin inhibits bacterial DNA gyrase and helicase. In vitro, fleroxacin inhibits DNA unwinding and ATPase activities of Bloom helicase, stabilizing the enzyme in a low activity conformation, disrupting ATP hydrolysis and blocking helicase translocation on DNA strands. Additionally, fleroxacin increases reactive oxygen species (ROS) and peroxidation of squalene when exposed to UVA light, indicating phototoxicity in vitro.



Bulk quantities available upon request

Product ID	Size
F4518	1 g
F4518	5 g
F4518	10 g
F4518	25 g

References Luo H, Xu HQ, Chen X, et al. Potent in vitro interference of fleroxacin in DNA-binding, unwinding and ATPase activities of Bloom helicase. *Biomed Environ Sci.* 2013 Apr;26(4):231-42. PMID: 23534463.

Kawada A, Hatanaka K, Gomi H, et al. In vitro phototoxicity of new quinolones: production of active oxygen species and photosensitized lipid peroxidation. *Photodermatol Photoimmunol Photomed.* 1999 Dec;15(6):226-30. PMID: 10599972

Gocke E. Mechanism of quinolone mutagenicity in bacteria. *Mutat Res.* 1991 May;248(1):135-43. PMID: 1851537.

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