LKT Laboratories, Inc.

Prulifloxacin

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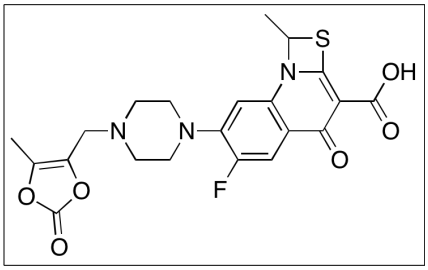
Product Information



Product ID P7082
CAS No. 123447-62-1
Chemical Name 1H,4H-(1,3)Thiazeto(3,2-a)quinoline-3-carboxylic acid, 6-fluoro-1-methyl-7-(4-((5-methyl-2-oxo-1,3-dioxol-4-
Synonym (+-)-7-(4-((Z)-2,3-Dihydroxy-2-butenyl)-1-piperazinyl)-6-fluoro-1-methyl-4-oxo-1H,4H-(1,3)thiazeto(3,2-a)quinoline-3-carboxylic acid, cyclic carbonate

Formula $C_{21}H_{20}FN_3O_6S$
Formula Wt. 461.46
Melting Point
Purity ≥97%
Solubility soluble in 0.1 mol/L NaOH,slightly soluble in acetonitrile and glacial acetic acid£¨practically insoluble in water,methanol ethanol and 0.1mol

Bulk quanitites available upon request

Product ID	Size
P7082	25 mg
P7082	100 mg
P7082	500 mg

Store Temp Ambient
Ship Temp Ambient

Description Prulifloxacin is a fluoroquinolone antibiotic with broad spectrum antibacterial activity against *Escherichia*, *Proteus*, *Staphylococcus*, *Streptococcus*, and *Haemophilus*. Like other fluoroquinolones, prulifloxacin inhibits DNA gyrase and topoisomerase IV, preventing DNA synthesis, repair, and transcription. Clinically, prulifloxacin is used to treat infections of the respiratory system and urinary tract.

References

Karageorgopoulos DE, Maraki S, Vatopoulos AC, et al. Antimicrobial activity of prulifloxacin in comparison with other fluoroquinolones against community-acquired urinary and respiratory pathogens isolated in Greece. Eur J Clin Microbiol Infect Dis. 2013 Nov;32(11):1417-22. PMID: 23686506.

Castora FJ, Vissering FF, Simpson MV. The effect of bacterial DNA gyrase inhibitors on DNA synthesis in mammalian mitochondria. Biochim Biophys Acta. 1983 Sep 9;740(4):417-27. PMID: 6309236.