

Danofloxacin mesylate

Chemical Properties

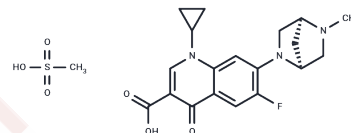
CAS No. : 119478-55-6

Formula: C₁₉H₂₀FN₃O₃·CH₄O₃S

Molecular Weight: 453.48

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Danofloxacin mesylate (CP 76136-27) is a synthetic antibacterial agent of the fluoroquinolone class that primarily inhibits bacterial DNA-gyrase.
Targets(IC50)	Antibacterial,Antibiotic,DNA/RNA Synthesis
In vitro	In vivo, Danofloxacin demonstrates a protective effect against Pasteurella multocida (PD50=0.38 mg/kg), Escherichia coli (PD50=0.8 mg/kg), and Salmonella Choleraesuis (PD50=2.42 mg/kg) in mice.
In vivo	Danofloxacin exhibits a minimum inhibitory concentration (MIC90) of 0.125µg/ml against isolates of Pasteurella haemolytica, Pasteurella multocida, and Haemophilus somnus from both Europe and North America.

Solubility Information

Solubility	DMSO: 4.6 mg/mL (10.14 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2052 mL	11.0258 mL	22.0517 mL
5 mM	0.441 mL	2.2052 mL	4.4103 mL
10 mM	0.2205 mL	1.1026 mL	2.2052 mL
50 mM	0.0441 mL	0.2205 mL	0.441 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

- Giles CJ, et al. J Vet Pharmacol Ther, 1991, 14(4), 400-410.
McGuirk PR, et al. J Med Chem, 1992, 35(4), 611-620.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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