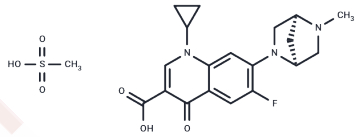
Data Sheet (Cat.No.T1276)

TargetMol

Danofloxacin mesylate

Chemical Properties



CAS No. : 119478-55-6

Formula: C19H20FN3O3·CH4O3S

Molecular Weight: 453.48

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

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,P-gp
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)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.21 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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.