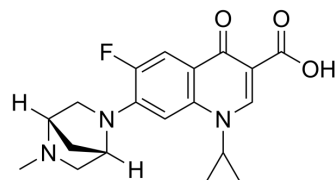


Danofloxacin

Cat. No.:	HY-W011117		
CAS No.:	112398-08-0		
Molecular Formula:	C ₁₉ H ₂₀ FN ₃ O ₃		
Molecular Weight:	357.38		
Target:	Bacterial; Antibiotic; DNA/RNA Synthesis		
Pathway:	Anti-infection; Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 4.59 mg/mL (12.84 mM; ultrasonic and warming and adjust pH to 4 with HCl and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.7981 mL	13.9907 mL	27.9814 mL
5 mM	0.5596 mL	2.7981 mL	5.5963 mL
10 mM	0.2798 mL	1.3991 mL	2.7981 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Danofloxacin is a third generation fluoroquinolone and orally active antimicrobial agent. Danofloxacin shows a broad spectrum of activity against most Gram-negative and Gram-positive bacteria, mycoplasma and chlamydia species, and plays an antimicrobial role by inhibition of bacterial DNA-gyrase. Danofloxacin has the potential for respiratory diseases in cattle, swine, and chickens treatment^{[1][2]}.

IC₅₀ & Target

Quinolone

REFERENCES

- [1]. Erjie Tian, et al. Population Pharmacokinetics for Danofloxacin in the Intestinal Contents of Healthy and Infected Chickens. *J Vet Pharmacol Ther.* 2019 Sep;42(5):556-563.
- [2]. Xia Xiao, et al. Comparative Pharmacokinetics of Danofloxacin in Healthy and *Pasteurella Multocida* Infected Ducks. *J Vet Pharmacol Ther.* 2018 Dec;41(6):912-918.

Caution: Product has not been fully validated for medical applications. For research use only.

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