



## Product Information

Product ID D0353

CAS No. 119487-55-6

Chemical Name

Synonym

Formula  $C_{19}H_{20}FN_3O_3 \cdot CH_3SO_3H$

Formula Wt. 453.48

Melting Point 263

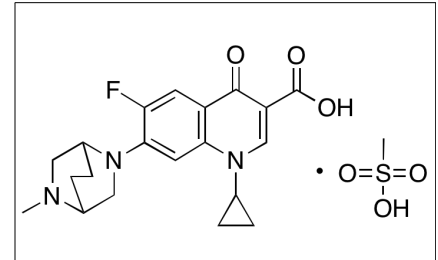
Purity  $\geq 98\%$

Solubility Soluble in water

Store Temp Ambient

Ship Temp Ambient

**Description** Danofloxacin is a fluoroquinolone antibiotic used in veterinary medicine. Danofloxacin exhibits broad spectrum antibacterial activity against species of *Mycoplasma*, *Actinobacillus*, *Mannheimia*, *Escherichia*, and *Pasteurella*. In renal epithelial cells, danofloxacin also increases activity of antioxidative enzymes, including superoxide dismutase (SOD) and catalase.



**Bulk quantities available upon request**

Product ID	Size
D0353	100 mg
D0353	500 mg
D0353	1 g
D0353	5 g

**References** Kawai K, Higuchi H, Iwano H, et al. Antimicrobial susceptibilities of *Mycoplasma* isolated from bovine mastitis in Japan. *Anim Sci J*. 2013 Nov 21. [Epub ahead of print]. PMID: 24261609.

Yu CH, Liu ZY, Sun LS, et al. Effect of Danofloxacin on Reactive Oxygen Species Production, Lipid Peroxidation and Antioxidant Enzyme Activities in Kidney Tubular Epithelial Cell Line, LLC-PK1. *Basic Clin Pharmacol Toxicol*. 2013 Jul 15. [Epub ahead of print]. PMID: 23855763.

Archambault M, Harel J, Gouré J, et al. Antimicrobial susceptibilities and resistance genes of Canadian isolates of *Actinobacillus pleuropneumoniae*. *Microb Drug Resist*. 2012 Apr;18(2):198-206. PMID: 22204596.

TerHune TN, Skogerboe TL, Shostrom VK, et al. Comparison of pharmacokinetics of danofloxacin and enrofloxacin in calves challenged with *Mannheimia haemolytica*. *Am J Vet Res*. 2005 Feb;66(2):342-9. PMID: 15757137.

Raemdonck DL, Tanner AC, Tolling ST, et al. In vitro susceptibility of avian *Escherichia coli* and *Pasteurella multocida* to danofloxacin and five other antimicrobials. *Avian Dis*. 1992 Oct-Dec;36(4):964-7. PMID: 1336664.

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