



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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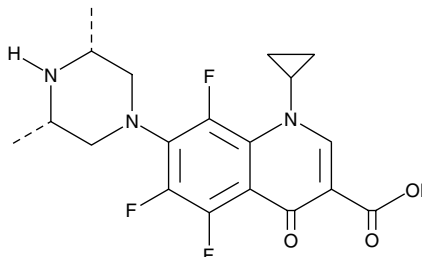
# Product Information



## Orbifloxacin

Item No. 17353

**CAS Registry No.:** 113617-63-3  
**Formal Name:** 1-cyclopropyl-7-[(3R,5S)-3,5-dimethyl-1-piperazinyl]-5,6,8-trifluoro-1,4-dihydro-4-oxo-3-quinolinecarboxylic acid  
**Synonym:** CP 104,354  
**MF:** C<sub>19</sub>H<sub>20</sub>F<sub>3</sub>N<sub>3</sub>O<sub>3</sub>  
**FW:** 395.4  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 211, 292, 324 nm



### Laboratory Procedures

For long term storage, we suggest that orbifloxacin be stored as supplied at -20°C. It should be stable for at least two years.

Orbifloxacin is supplied as a crystalline solid. A stock solution may be made by dissolving the orbifloxacin in the solvent of choice. Orbifloxacin is soluble in the organic solvent dimethyl formamide (DMF), which should be purged with an inert gas, at a concentration of approximately 10 mg/ml.

Orbifloxacin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, orbifloxacin should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Orbifloxacin has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Orbifloxacin is a fluoroquinolone antibiotic used in animals, including dogs, cattle, and swine, to combat gastrointestinal and respiratory infections.<sup>1,2</sup> It is effective against most Gram-negative bacteria, including *Enterobacteriaceae* and *Pseudomonas*, with lower activity against Gram-positive aerobes.<sup>1,2</sup>

### References

1. Haines, G.R., Brown, M.P., Gronwall, R.R., *et al.* Pharmacokinetics of orbifloxacin and its concentration in body fluids and in endometrial tissues of mares. *Can. J. Vet. Res.* **65**(3), 181-187 (2001).
2. Gebu, E., Lee, J.-S., Chang, Z.-Q., *et al.* Integration of pharmacokinetic and pharmacodynamic indices of orbifloxacin in beagle dogs after a single intravenous and intramuscular administration. *Antimicrob. Agents Chemother.* **53**(7), 3024-3029 (2009).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/17353](http://www.caymanchem.com/catalog/17353)

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**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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