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Produktinformation

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- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

Marbofloxacin-d_8 (hydrochloride)

Item No. 33273

Formal Name: 9-fluoro-2,3-dihydro-3-methyl-10-(4-methyl-1-piperazinyl-d_8)-7-oxo-7H-pyrido[3,2,1-ij][4,1,2]benzoxadiazine-6-carboxylic acid, monohydrochloride

MF: $C_{17}H_{11}D_8FN_4O_4 \bullet HCl$

FW: 406.9

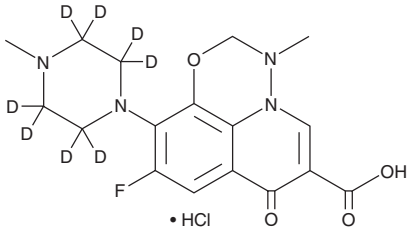
Chemical Purity: ≥95% (Marbofloxacin)

Deuterium Incorporation: ≥99% deuterated forms (d_1-d_8); ≤1% d_0

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Marbofloxacin-d_8 (hydrochloride) is intended for use as an internal standard for the quantification of marbofloxacin (Item No. 24174) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Marbofloxacin-d_8 (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the marbofloxacin-d_8 (hydrochloride) in the solvent of choice. Marbofloxacin-d_8 (hydrochloride) is soluble in the organic solvent DMSO, which should be purged with an inert gas. It is also soluble in methanol:water (1:1). We do not recommend storing the aqueous solution for more than one day.

Description

Marbofloxacin is a fluoroquinolone antibiotic that is active against *P. multocida in vitro* (MIC = 0.016 µg/ml).[1] It exhibits broad-spectrum antibacterial activity mediated by the inhibition of DNA gyrase, with MIC values ranging from 0.016 to 0.4 and 0.19 to 1.7 µg/ml against various Gram-negative and Gram-positive bacterial isolates, respectively.[2] Intramuscular administration of marbofloxacin (2 mg/kg) after infection prevents the formation of pulmonary lesions in a bovine calf model of *M. haemolytica* A1 pneumonia.[3] Oral administration of marbofloxacin (2 mg/kg per day) also exhibits antileishmanial activity in a canine model of leishmaniasis, decreasing parasitic load by 72%.[4] Formulations containing marbofloxacin have been used in the veterinary treatment of bacterial infections.

References

1. Ferran, A.A., Toutain, P.L., and Bousquet-Mélou, A. Impact of early versus later fluoroquinolone treatment on the clinical; microbiological and resistance outcomes in a mouse-lung model of *Pasteurella multocida* infection. *Vet. Microbiol.* **148(2-4)**, 292-297 (2011).
2. Spreng, M., Deleforge, J., Thomas, V., *et al.* Antibacterial activity of marbofloxacin. A new fluoroquinolone for veterinary use against canine and feline isolates. *J. Vet. Pharmacol. Ther.* **18(4)**, 284-289 (1995).
3. Lhermie, G., Ferran, A.A., Assié, S., *et al.* Impact of timing and dosage of a fluoroquinolone treatment on the microbiological, pathological, and clinical outcomes of calves challenged with *Mannheimia haemolytica*. *Front. Microbiol.* **237(7)**, (2016).
4. Pineda, C., Aguilera-Tejero, E., Morales, M.C., *et al.* Treatment of canine leishmaniasis with marbofloxacin in dogs with renal disease. *PLoS One* **12(10)**, e0185981 (2017).

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