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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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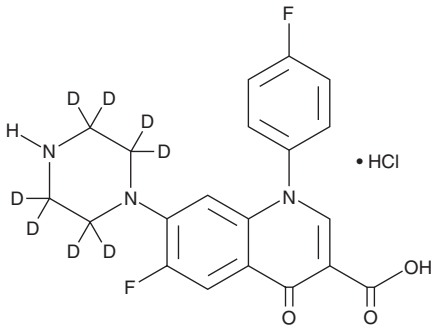
PRODUCT INFORMATION

Sarafloxacin-d_8 (hydrochloride)

Item No. 34226



Formal Name:	6-fluoro-1-(4-fluorophenyl)-1,4-dihydro-4-oxo-7-(1-piperazinyl-2,2,3,3,5,5,6,6-d_8)-3-quinolinecarboxylic acid
MF:	$C_{20}H_9D_8F_2N_3O_3$ • HCl
FW:	429.9
Chemical Purity:	≥98% (Sarafloxacin)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_8); ≤1% d_0
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years

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

Laboratory Procedures

Sarafloxacin-d_8 is intended for use as an internal standard for the quantification of sarafloxacin (Item No. 20299) 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).

Sarafloxacin-d_8 (hydrochloride) is supplied as a solid. A stock solution may be made by dissolving the sarafloxacin-d_8 (hydrochloride) in the solvent of choice, which should be purged with an inert gas. Sarafloxacin-d_8 (hydrochloride) is soluble in the organic solvent DMSO.

Description

Sarafloxacin is a fluoroquinolone antibiotic.[1,2] It is active against various clinical isolates of bacteria, including *Bacteroides*, *Fusobacterium*, *Eubacterium*, *Actinomyces*, and *Peptococcus* (MICs = 0.5-2 µg/ml).[1] Sarafloxacin inhibits *P. aeruginosa* DNA gyrase.[3] It decreases air sac lesion severity in a chick model of *E. coli*-induced colisepticemia when administered at a dose of 8 mg/kg in the drinking water 24 hours per day for five days.[2] Formulations containing sarafloxacin have previously been used in the treatment of bacterial infections in poultry.

References

1. Bansal, M.B. and Thadepalli, H. Activity of difloxacin (A-56619) and A-56620 against clinical anaerobic bacteria in vitro. *Antimicrob. Agents Chemother.* **31(4)**, 619-621 (1987).
2. Charleston, B., Gate, J.J., Aitken, I.A., *et al.* Comparison of the efficacies of three fluoroquinolone antimicrobial agents, given as continuous or pulsed-water medication, against *Escherichia coli* infection in chickens. *Antimicrob. Agents Chemother.* **42(1)**, 83-87 (1998).
3. Moir, D.T., Di, M., Opperman, T., *et al.* A high-throughput, homogeneous, bioluminescent assay for *Pseudomonas aeruginosa* gyrase inhibitors and other DNA-damaging agents. *J. Biomol. Screen.* **12(6)**, 855-864 (2007).

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