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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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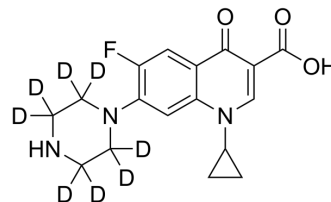
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Ciprofloxacin-d₈

Cat. No.:	HY-B0356S1
CAS No.:	1130050-35-9
Molecular Formula:	C ₁₇ H ₁₀ D ₈ FN ₃ O ₃
Molecular Weight:	339.39
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Ciprofloxacin-d ₈ is the deuterium labeled Ciprofloxacin. Ciprofloxacin (Bay-09867) is a fluoroquinolone antibiotic, exhibiting potent antibacterial activity.
IC ₅₀ & Target	Quinolone
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Peltzer PM, et al. Ecotoxicity of veterinary enrofloxacin and ciprofloxacin antibiotics on anuran amphibian larvae. *Environ Toxicol Pharmacol*. 2017 Feb 4. pii: S1382-6689(17)30029-7
- [3]. Hamblin KA, et al. Inhaled Liposomal Ciprofloxacin Protects against a Lethal Infection in a Murine Model of Pneumonic Plague. *Front Microbiol*. 2017 Feb 6;8:91.
- [4]. Steenbergen J, et al. In Vitro and In Vivo Activity of Omadacycline Against Two Biothreat Pathogens: *Bacillus anthracis* and *Yersinia pestis*. *Antimicrob Agents Chemother*. 2017 Feb 21.

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

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