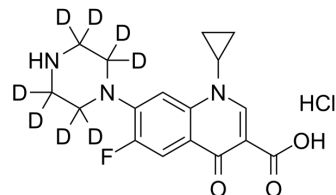


## Ciprofloxacin-d8 hydrochloride

<b>Cat. No.:</b>	HY-B0356S
<b>CAS No.:</b>	1216659-54-9
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>11</sub> D <sub>8</sub> ClFN <sub>3</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	375.85
<b>Target:</b>	Bacterial; Antibiotic
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### BIOLOGICAL ACTIVITY

<b>Description</b>	Ciprofloxacin-d <sub>8</sub> (hydrochloride) is the deuterium labeled Ciprofloxacin. Ciprofloxacin (Bay-09867) hydrochloride is a fluoroquinolone antibiotic, exhibiting potent antibacterial activity.
<b>In Vitro</b>	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 <sup>[1]</sup> . 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; Steenbergen J, et al. In Vitro and In Vivo Activity of Omadacycline Again

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

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