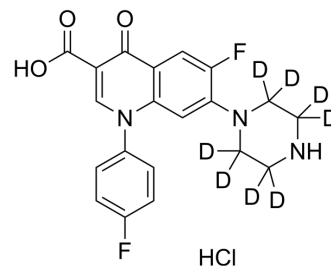


Sarafloxacin-d₈ hydrochloride

Cat. No.:	HY-B0343AS
CAS No.:	2733145-07-6
Molecular Formula:	C ₂₀ H ₁₀ D ₈ ClF ₂ N ₃ O ₃
Molecular Weight:	429.87
Target:	Bacterial; Antibiotic; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sarafloxacin-d ₈ (A-56620-d ₈) hydrochloride is the deuterium labeled Sarafloxacin hydrochloride. Sarafloxacin hydrochloride (A-56620 hydrochloride) is a quinolone antibiotic drug.
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]. Marengo, J.R., et al., Aerobic biodegradation of (14C)-sarafloxacin hydrochloride in soil. *Environmental Toxicology and Chemistry*, 1997. 16(3): p. 462-471.
- [3]. McConville, M.L., et al., Effects of sarafloxacin hydrochloride on human enteric bacteria under simulated human gut conditions. *Vet Q*, 1995. 17(1): p. 1-5.
- [4]. Johnson, M.R., K.L. Smith, and C.R. Boyle, Field efficacy trials of the antibacterial sarafloxacin-hydrochloride (A-56620) for treatment of *Edwardsiella ictaluri* infections in channel catfish. *Journal of aquatic animal health*, 1992. 4(4): p. 244-251.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA