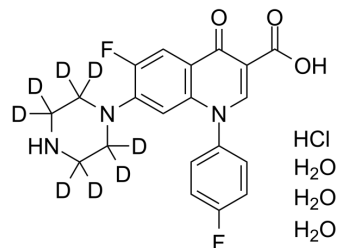


## Sarafloxacin-d8 hydrochloride trihydrate

<b>Cat. No.:</b>	HY-B0343BS
<b>Molecular Formula:</b>	$C_{20}H_{16}D_8ClF_2N_3O_6$
<b>Molecular Weight:</b>	483.92
<b>Target:</b>	Bacterial
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Sarafloxacin-d <sub>8</sub> (hydrochloride trihydrate) is the deuterium labeled Sarafloxacin hydrochloride trihydrate. Sarafloxacin hydrochloride trihydrate is a quinolone antibiotic compound[1][2].
<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]. 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.

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

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