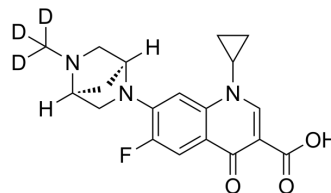


## Danofloxacin-d<sub>3</sub>-1

Cat. No.:	HY-W011117S1		
CAS No.:	1217683-55-0		
Molecular Formula:	C <sub>19</sub> H <sub>17</sub> D <sub>3</sub> FN <sub>3</sub> O <sub>3</sub>		
Molecular Weight:	360.4		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

#### Description

Danofloxacin-d<sub>3</sub>-1 is deuterium labeled Danofloxacin. Danofloxacin is a third generation fluoroquinolone and orally active antimicrobial agent. Danofloxacin shows a broad spectrum of activity against most Gram-negative and Gram-positive bacteria, mycoplasma and chlamydia species, and plays an antimicrobial role by inhibition of bacterial DNA-gyrase<sup>[1][2]</sup>.

### REFERENCES

[1]. Erjie Tian, et al. Population Pharmacokinetics for Danofloxacin in the Intestinal Contents of Healthy and Infected Chickens. *J Vet Pharmacol Ther.* 2019 Sep;42(5):556-563.

[2]. Xia Xiao, et al. Comparative Pharmacokinetics of Danofloxacin in Healthy and *Pasteurella Multocida* Infected Ducks. *J Vet Pharmacol Ther.* 2018 Dec;41(6):912-918.

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

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