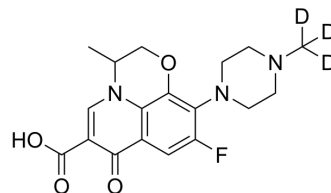


## Ofloxacin-d<sub>3</sub>

<b>Cat. No.:</b>	HY-B0125S		
<b>CAS No.:</b>	1173147-91-5		
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>17</sub> D <sub>3</sub> FN <sub>3</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	364.39		
<b>Target:</b>	Antibiotic; Endogenous Metabolite; Bacterial; Orthopoxvirus; Isotope-Labeled Compounds		
<b>Pathway:</b>	Anti-infection; Metabolic Enzyme/Protease; Others		
<b>Storage:</b>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 6.25 mg/mL (17.15 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.7443 mL	13.7216 mL	27.4431 mL
		5 mM	0.5489 mL	2.7443 mL	5.4886 mL
10 mM		0.2744 mL	1.3722 mL	2.7443 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.62 mg/mL (1.70 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.62 mg/mL (1.70 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Ofloxacin-d <sub>3</sub> is the deuterium labeled Ofloxacin[1].
<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>[75]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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

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