Metronidazole-d₄

Cat. No.:	HY-B0318S1	L			
CAS No.:	1261392-47-5				
Molecular Formula:	$C_6H_5D_4N_3O_3$				
Molecular Weight:	175.18				
Target:	Apoptosis; Bacterial; Parasite; Antibiotic				
Pathway:	Apoptosis; Anti-infection				
Storage:	Powder	-20°C	3 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 15 mg/mL (85.63 mM)		
DMF : ≥ 15 mg/mL (85.63 mM)		
Ethanol : ≥ 5 mg/mL (28.54 mM)		
* "≥" means soluble, but saturation unknown.		

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	5.7084 mL	28.5421 mL	57.0841 mL
	5 mM	1.1417 mL	5.7084 mL	11.4168 mL
	10 mM	0.5708 mL	2.8542 mL	5.7084 mL

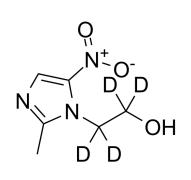
Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY					
Description	Metronidazole-d ₄ is the deuterium labeled Metronidazole. Metronidazole is a nitroimidazole antibiotic medication used particularly for anaerobic bacteria and protozoa.				
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]. Cohen, S.H., et al., Clinical practice guidelines for Clostridium difficile infection in adults: 2010 update by the society for healthcare epidemiology of America (SHEA) and





Product Data Sheet

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

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