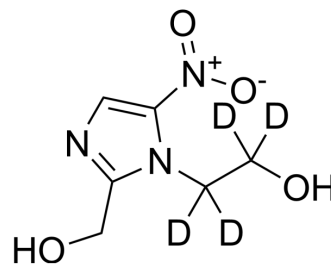


Hydroxymetronidazole-d₄

Cat. No.:	HY-136440S
CAS No.:	1215071-08-1
Molecular Formula:	C ₆ H ₅ D ₄ N ₃ O ₄
Molecular Weight:	191.18
Target:	Bacterial; Parasite; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Hydroxymetronidazole-d ₄ is the deuterium labeled Hydroxymetronidazole. Hydroxymetronidazole (Metronidazole-OH) is a metabolite of Metronidazole belonging to the class of nitroimidazoles. Hydroxymetronidazole can be used for the research of certain bacterial and protozoal diseases in poultry, swine dysentery and genital trichomoniasis in cattle[1].
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]. Rodrigo H M M Granja, et al. Determination and confirmation of metronidazole, dimetridazole, ronidazole and their metabolites in bovine muscle by LC-MS/MS. *Food Addit Contam Part A Chem Anal Control Expo Risk Assess*. 2013;30(6):970-6.

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

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