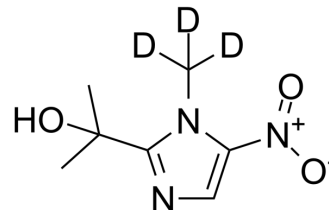


Hydroxy ipronidazole-d3

Cat. No.:	HY-135212S
CAS No.:	1156508-86-9
Molecular Formula:	C ₇ H ₈ D ₃ N ₃ O ₃
Molecular Weight:	188.2
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Hydroxy ipronidazole-d3 is the deuterium labeled Hydroxy ipronidazole. Hydroxy ipronidazole (Ipronidazole-OH) is a metabolite of nitroimidazole antibiotics, such as ipronidazole (IPZ). Hydroxy ipronidazole may have similar mutagenic potential as the parent compound ^[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]. Kamila Mitrowska, et al. Transfer of nitroimidazoles from contaminated beeswax to honey. *Food Addit Contam Part A Chem Anal Control Expo Risk Assess.* 2017 Apr;34(4):573-581.

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

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