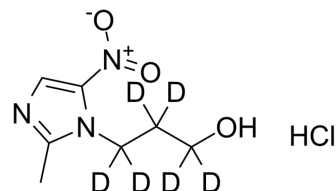


Ternidazole-d6 hydrochloride

Cat. No.:	HY-136436S
CAS No.:	1346599-62-9
Molecular Formula:	C ₇ H ₆ D ₆ ClN ₃ O ₃
Molecular Weight:	227.68
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ternidazole-d6 hydrochloride is the deuterium labeled Ternidazole hydrochloride. Ternidazole hydrochloride is a hydroxymetabolite of nitroimidazole, has antiprotozoic properties ^{[1][2]} .
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]. Nathalie Mahé, et al. Solid-state studies of the triclinic (Z' = 2) antiprotozoal drug ternidazole. *J Pharm Sci*. 2011 Jun;100(6):2258-66.
- [3]. Kamila Mitrowska, et al. Development and validation of a liquid chromatography with tandem mass spectrometry method for the determination of nitroimidazole residues in beeswax. *J Sep Sci*

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

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