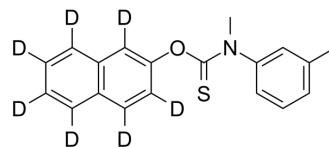


Tolnaftate (D7)

Cat. No.:	HY-B0370S
CAS No.:	1329835-64-4
Molecular Formula:	C ₁₉ H ₁₀ D ₇ NOS
Molecular Weight:	314.45
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tolnaftate D7 (NP-27 D7) is the deuterium labeled Tolnaftate. Tolnaftate (NP-27) is a synthetic thiocarbamate used as an anti-fungal agent ^{[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]. Ryder, N.S., I. Frank, and M.C. Dupont, Ergosterol biosynthesis inhibition by the thiocarbamate antifungal agents tolnaftate and tolciclate. *Antimicrob Agents Chemother*, 1986. 29(5): p. 858-60.
- [3]. Georgopapadakou, N.H. and A. Bertasso, Effects of squalene epoxidase inhibitors on *Candida albicans*. *Antimicrob Agents Chemother*, 1992. 36(8): p. 1779-81.

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

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