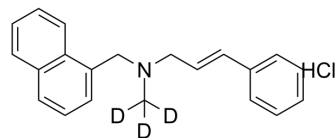


## Naftifine-d3 hydrochloride

Cat. No.:	HY-B0518AS
CAS No.:	1246833-81-7
Molecular Formula:	C <sub>21</sub> H <sub>19</sub> D <sub>3</sub> ClN
Molecular Weight:	326.88
Target:	Fungal; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Naftifine-d3 hydrochloride is the deuterium labeled Naftifine hydrochloride. Naftifine hydrochloride is an antibiotic. Naftifine hydrochloride has antifungal activity against dermatophytes, aspergilli, <i>Sporothrix schenckii</i> , and yeasts of the genus <i>Candida</i> . Naftifine hydrochloride can be used for the research of superficial dermatomycoses inhibition <sup>[1]</sup> .
<b>In Vitro</b>	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 <sup>[1]</sup> . 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]. Georgopoulos, A., et al., In vitro activity of naftifine, a new antifungal agent. *Antimicrob Agents Chemother*, 1981. 19(3): p. 386-9.
- [3]. Ryder, N.S., G. Seidl, and P.F. Troke, Effect of the antimycotic drug naftifine on growth of and sterol biosynthesis in *Candida albicans*. *Antimicrob Agents Chemother*, 1984. 25(4): p. 483-7.
- [4]. Parish, L.C., et al., A double-blind, randomized, vehicle-controlled study evaluating the efficacy and safety of naftifine 2% cream in tinea cruris. *J Drugs Dermatol*, 2011. 10(10): p. 1142-7.
- [5]. Gupta, A.K., J.E. Ryder, and E.A. Cooper, Naftifine: a review. *J Cutan Med Surg*, 2008. 12(2): p. 51-8.

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

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