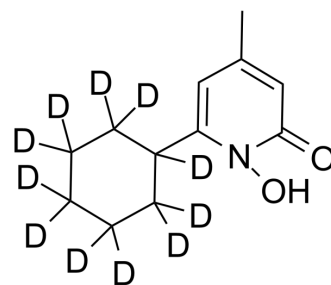


Ciclopirox-d11

Cat. No.:	HY-B0450S
Molecular Formula:	C ₁₂ H ₆ D ₁₁ NO ₂
Molecular Weight:	218.34
Target:	Fungal; Bacterial; Ferroptosis; Autophagy
Pathway:	Anti-infection; Apoptosis; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ciclopirox-d11 (HOE296b-d11) is the deuterium labeled Ciclopirox. Ciclopirox (HOE296b) is a synthetic antifungal agent that can be used for superficial mycoses reseach. Ciclopirox olamine has a very broad spectrum of activity and inhibits dermatophytes, yeasts, molds, and many Gram-positive and Gram-negative species pathogenic ^[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

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- [3]. Leem, S.H., et al., The possible mechanism of action of ciclopirox olamine in the yeast *Saccharomyces cerevisiae*. *Mol Cells*, 2003. 15(1): p. 55-61.
- [4]. Ratnavel, R.C., R.A. Squire, and G.C. Boorman, Clinical efficacies of shampoos containing ciclopirox olamine (1.5%) and ketoconazole (2.0%) in the treatment of seborrhoeic dermatitis. *J Dermatolog Treat*, 2007. 18(2): p. 88-96.

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

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