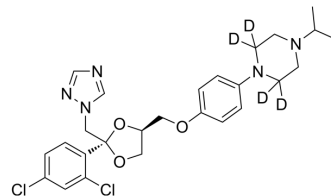


Terconazole-d₄

Cat. No.:	HY-B1790S		
CAS No.:	1398065-50-3		
Molecular Formula:	C ₂₆ H ₂₇ D ₄ Cl ₂ N ₅ O ₃		
Molecular Weight:	536.49		
Target:	Fungal		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMF : ≥ 5 mg/mL (9.32 mM)
 DMSO : ≥ 2 mg/mL (3.73 mM)
 Ethanol : ≥ 1 mg/mL (1.86 mM)
 DMF:PBS(pH 7.2)(1:1) : ≥ 0.5 mg/mL (0.93 mM)

* "≥" means soluble, but saturation unknown.

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.8640 mL	9.3198 mL	18.6397 mL
	5 mM	0.3728 mL	1.8640 mL	3.7279 mL
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Terconazole-d₄ is the deuterium labeled Terconazole. Terconazole is a broad-spectrum antifungal medication for the treatment of vaginal yeast infection.

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]. Tolman EL, et al. Anticandidal activities of terconazole, a broad-spectrum antimycotic. *Antimicrob Agents Chemother.* 1986 Jun;29(6):986-91.

[3]. Van Cutsem J, et al. The in vitro activity of terconazole against yeasts: its topical long-acting therapeutic efficacy in experimental vaginal candidiasis in rats. *Am J Obstet Gynecol.* 1991 Oct;165(4 Pt 2):1200-6.

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

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