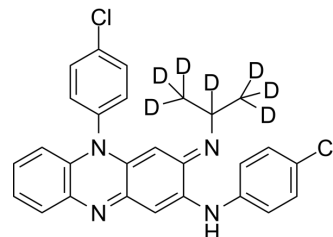


Clofazimine-d₇

Cat. No.:	HY-B1046S		
Molecular Formula:	C ₂₇ H ₁₅ D ₇ Cl ₂ N ₄		
Molecular Weight:	480.44		
Target:	Bacterial; Antibiotic		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Clofazimine-d ₇ is deuterium labeled Clofazimine. Clofazimine is an iminophenazine dye, has a marked anti-inflammatory effect, has been used in combination with other antimycobacterial agents to treat AIDS and Crohn's disease.
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]. Arbiser JL, et al. Clofazimine: a review of its medical uses and mechanisms of action. *J Am Acad Dermatol*. 1995 Feb;32(2 Pt 1):241-7.
- [3]. Cholo MC, et al. Clofazimine: current status and future prospects. *J Antimicrob Chemother*. 2012 Feb;67(2):290-8.

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

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