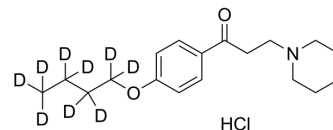


Dyclonine-d₉ hydrochloride

Cat. No.:	HY-B0364AS
Molecular Formula:	C ₁₈ H ₁₉ D ₉ ClNO ₂
Molecular Weight:	334.93
Target:	Fungal; Bacterial; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Dyclonine-d ₉ (hydrochloride) is deuterium labeled Dyclonine (hydrochloride). Dyclonine hydrochloride (Dyclocaïne hydrochloride) is an effective component of Runhou tablets. Dyclonine hydrochloride has significant bactericidal and fungicidal activity[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]. Florestano, H.J. and M.E. Bahler, Antimicrobial properties of dyclonine hydrochloride, a new topical anesthetic. *J Am Pharm Assoc Am Pharm Assoc (Baltim)*, 1956. 45(5): p. 320-5.
- [3]. Gargiulo, A.V., G.M. Burns, and C.P. Huck, Dyclonine hydrochloride--a topical agent for managing pain. *Ill Dent J*, 1992. 61(4): p. 303-4.

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

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