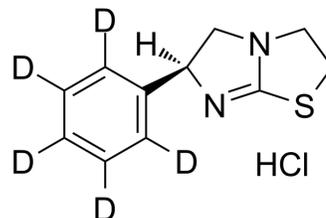


Levamisole-d5 hydrochloride

Cat. No.:	HY-13666S
CAS No.:	1246819-64-6
Molecular Formula:	C ₁₁ H ₈ D ₅ ClN ₂ S
Molecular Weight:	245.78
Target:	Parasite; HSV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Levamisole-d5 ((-)-Tetramisole-d5) hydrochloride is the deuterium labeled Levamisole hydrochloride. Levamisole ((-)-Tetramisole) hydrochloride is an anthelmintic and immunomodulator belonging to a class of synthetic imidazothiazole derivatives. Levamisole hydrochloride has antiviral effects against HSV ^{[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]. Centers for Disease Control and Prevention (CDC). Agranulocytosis associated with cocaine use - four States, March 2008-November 2009. *MMWR Morb Mortal Wkly Rep.* 2009 Dec 18;58(49):1381-5.
- [3]. Zhu NY, et al. Agranulocytosis after consumption of cocaine adulterated with levamisole. *Ann Intern Med.* 2009 Feb 17;150(4):287-9.
- [4]. Van Belle H. Alkaline phosphatase. I. Kinetics and inhibition by levamisole of purified isoenzymes from humans. *Clin Chem.* 1976 Jul;22(7):972-6.
- [5]. Friedlaender MH, et al. The treatment of herpetic reinfection with levamisole. *Am J Ophthalmol.* 1978 Aug;86(2):245-9.

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

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