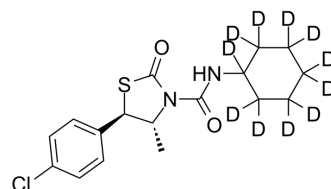


Hexythiazox-d11

Cat. No.:	HY-B1851S
CAS No.:	2714418-33-2
Molecular Formula:	C ₁₇ H ₁₀ D ₁₁ ClN ₂ O ₂ S
Molecular Weight:	363.95
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Hexythiazox-d11 is deuterium labeled Hexythiazox. Hexythiazox is a selective acaricide with ovicidal, larvicidal and nymphicidal activities. Hexythiazox is widely used for chemical control of mites on cotton, fruits and vegetables. Hexythiazox is harmless to mammals and has no effect on beneficial insects and predators of mites ^{[1][2]} .
IC₅₀ & Target	Mite
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]. Ayman N Saber, et al. Dissipation Dynamic, Residue Distribution and Processing Factor of Hexythiazox in Strawberry Fruits Under Open Field Condition. *Food Chem.* 2016 Apr 1;196:1108-16.
- [3]. R Nauen, et al. Acaricide Toxicity and Resistance in Larvae of Different Strains of Tetranychus Urticae and Panonychus Ulmi (Acari: Tetranychidae). *Pest Manag Sci.* 2001 Mar;57(3):253-61.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA