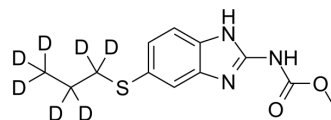


Albendazole-d7

Cat. No.:	HY-B0223S2
CAS No.:	1287076-43-0
Molecular Formula:	C ₁₂ H ₈ D ₇ N ₃ O ₂ S
Molecular Weight:	272.37
Target:	Parasite; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Albendazole-d7 (SKF-62979-d7) is the deuterium labeled Albendazole. Albendazole is a broad-spectrum parasiticide with high effectiveness and low host toxicity. Albendazole is used for the research gastrointestinal parasites in humans and animals ^{[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]. Li L, et al. Determination of albendazole and metabolites in silkworm *Bombyx mori* hemolymph by ultrafast liquid chromatography tandem triple quadrupole mass spectrometry. *PLoS One.* 2014;9(9):e105637. Published 2014 Sep 25.
- [3]. Mutavdžić Pavlović D, et al. Sorption of albendazole in sediments and soils: Isotherms and kinetics. *Chemosphere.* 2018;193:635-644.

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

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