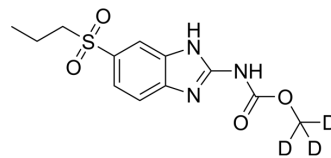


## Albendazole sulfone-d<sub>3</sub>

<b>Cat. No.:</b>	HY-W019773S1
<b>CAS No.:</b>	1448345-60-5
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>12</sub> D <sub>3</sub> N <sub>3</sub> O <sub>4</sub> S
<b>Molecular Weight:</b>	300.35
<b>Target:</b>	Parasite; Drug Metabolite; Isotope-Labeled Compounds
<b>Pathway:</b>	Anti-infection; Metabolic Enzyme/Protease; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Albendazole sulfone-d <sub>3</sub> is the deuterium labeled Albendazole sulfone. Albendazole sulfone is a metabolite of Albendazole, and exhibits anti-parasite effect against Echinococcus multilocularis Metacestodes.
<b>In Vitro</b>	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Adas G, et, al. Use of albendazole sulfoxide, albendazole sulfone, and combined solutions as scolicial agents on hydatid cysts (in vitro study). World J Gastroenterol. 2009 Jan 7;15(1):112-6.
- [2]. Ingold K, et, al. Efficacies of albendazole sulfoxide and albendazole sulfone against In vitro-cultivated Echinococcus multilocularis metacestodes. Antimicrob Agents Chemother. 1999 May;43(5):1052-61.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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

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