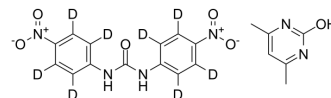


Nicarbazin-d8

Cat. No.:	HY-107814S
Molecular Formula:	C ₁₉ H ₁₀ D ₈ N ₆ O ₆
Molecular Weight:	434.43
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Nicarbazin-d8 is deuterium labeled Nicarbazin. Nicarbazin is an effective anticoccidial agent for chickens ^[1] .
IC₅₀ & Target	Coccidia
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]. CUCKLER AC, et al. The effect of nicarbazin on the development of immunity to avian coccidia. *J Parasitol.* 1956 Dec;42(6):593-607.
- [2]. Ott, W. H., et al. Biological Studies on Nicarbazin, a New Anticoccidial Agent. *Poultry Science.* 1956. 35(6), 1355–1367.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

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

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