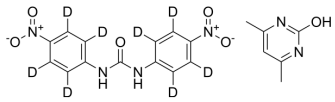
Nicarbazin-d_8

Cat. No.:	HY-107814S		
Molecular Formula:	$C_{19}H_{10}D_8N_6O_6$		
Molecular Weight:	434.43		
Target:	Parasite		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Nicarbazin-d_8 is deuterium labeled Nicarbazin. Nicarbazin is an effective anticoccidial agent for chickens[1].
IC_{50} & 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.

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