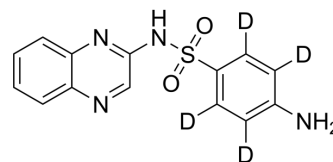


Sulfaquinoxaline-d₄

Cat. No.:	HY-B1282S
CAS No.:	1329652-02-9
Molecular Formula:	C ₁₄ H ₈ D ₄ N ₄ O ₂ S
Molecular Weight:	304.36
Target:	Bacterial; Parasite; Antibiotic; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sulfaquinoxaline-d ₄ is the deuterium labeled Sulfaquinoxaline. Sulfaquinoxaline is an antimicrobial for veterinary use, with activity against a broad spectrum of Gram-negative and Gram-positive bacteria. Sulfaquinoxaline is used to prevent coccidiosis and bacterial infections[1][2].
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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. de Assis DC, et al. Evaluation of the Presence and Levels of Enrofloxacin, Ciprofloxacin, Sulfaquinoxaline and Oxytetracycline in Broiler Chickens after Drug Administration. *PLoS One.* 2016 Nov 15;11(11):e0166402.; Urbano VR, et al. Influence of pH and ozone dose on sulfaquinoxaline ozonation. *J Environ Manage.* 2017 Jun 15;195(Pt 2):224-231.

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

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