



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

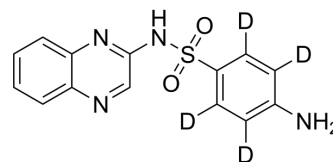
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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## Sulfaquinoxaline-d<sub>4</sub>

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



### BIOLOGICAL ACTIVITY

<b>Description</b>	Sulfaquinoxaline-d <sub>4</sub> 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].
<b>IC<sub>50</sub> &amp; Target</b>	Coccidia
<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]. 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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA