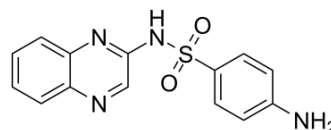


Sulfaquinoxaline

Cat. No.:	HY-B1282
CAS No.:	59-40-5
Molecular Formula:	C ₁₄ H ₁₂ N ₄ O ₂ S
Molecular Weight:	300.34
Target:	Bacterial; Parasite; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	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	Bacterial, Parasite ^{[1][2]}
In Vivo	Sulfaquinoxaline shows the presence of all antimicrobial residues at concentration higher than the drugs' maximum residue limit (MRL) of 100 µg/kg until two days after discontinuation of the medication ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration ^[1]	For the depletion studies, 240 1-day-old Cobb chicks are used. The chickens are housed in pens that contains 30 birds each (10 birds/m ²) and are provided ad libitum access to water and non-medicated feed. The chickens are randomly allocated into four experimental groups, labeled from A to D, containing 80 birds each. Chickens in group A form the untreated control group, whereas those in groups B, C and D are treated with 10 mg/kg bw of enrofloxacin, Sulfaquinoxaline or oxytetracycline, respectively, which is administered via drinking water from the 32 nd to 34 th day of breeding ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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REFERENCES

- [1]. 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.
- [2]. 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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