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## Product Data Sheet

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Product Name: Sulfaquinoxaline-D4

Cat. No.: GC63350

### Chemical Properties

Cas. No. 1329652-02-9

Formula  $C_{14}H_8D_4N_4O_2S$  M.Wt 304.36

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

### Background

Sulfaquinoxaline-D4 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].

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].

[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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