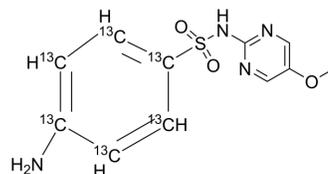


Sulfameter-¹³C₆

Cat. No.:	HY-B0213S1
Molecular Formula:	C ₅ ¹³ C ₆ H ₁₂ N ₄ O ₃ S
Molecular Weight:	286.26
Target:	Bacterial; 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	Sulfameter- ¹³ C ₆ is the ¹³ C ₆ labeled Sulfameter. Sulfameter (Sulfametoxydiazine; 5-Methoxysulfadiazine) is an effective long-acting sulfonamide antibiotic with antibacterial activities. Sulfameter can be used for the research of urinary tract infections and leprosis.
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]. Douglas H.Nakahata, et al. Crystal structure, spectroscopic characterization and antibacterial activities of a silver complex with sulfameter. Journal of Molecular Structure. Volume 1125, 5 December 2016, Pages 609-615
- [2]. Kaumeier S. The effect of the composition of food on the absorption of sulfameter. Int J Clin Pharmacol Biopharm. 1979 Jun;17(6):260-3.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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

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