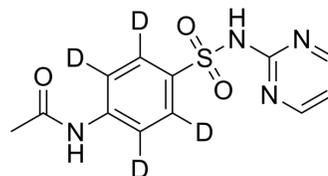


N-Acetyl sulfadiazine-d₄

Cat. No.:	HY-141720S
CAS No.:	1219149-66-2
Molecular Formula:	C ₁₂ H ₈ D ₄ N ₄ O ₃ S
Molecular Weight:	296.34
Target:	HCV; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	N-Acetyl sulfadiazine-d ₄ is the deuterium labeled Triton X-45(n=4). Triton X-45 (n=4), a nonionic surfactant with a low hydrophile-lipophile balance (HLB) value and dispersible in aqueous solution at room temperature, has a Krafft point above the room temperature. Triton X-45 has the potential for the research of the hepatitis C virus (HCV)[1][2].
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]. Wang Z, et al. Cloud point of nonionic surfactant Triton X-45 in aqueous solution. *Colloids Surf B Biointerfaces.* 2008;61(1):118-122.
- [3]. Chou ML, et al. TnBP/Triton X-45 treatment of plasma for transfusion efficiently inactivates hepatitis C virus. *PLoS One.* 2015;10(2):e0117800. Published 2015 Feb 6.

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