Product Data Sheet

Sulfasalazine-d4

 Cat. No.:
 HY-14655S

 CAS No.:
 1346606-50-5

 Molecular Formula:
 C₁₈H₁₀D₄N₄O₅S

Molecular Weight: 402.42

Target: Apoptosis; Bacterial; Autophagy; NF-kB; Ferroptosis; Antibiotic; Isotope-Labeled

Compounds

Pathway: Apoptosis; Anti-infection; Autophagy; NF-κΒ; Others

Storage: Powder -20°C 3 years

4°C 2 years

In solvent -80°C 6 months

-20°C 1 month

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BIOLOGICAL ACTIVITY

Description	Sulfasalazine- d_4 is the deuterium labeled Sulfasalazine. Sulfasalazine (NSC 667219) is an anti-rheumatic agent for the research of rheumatoid arthritis and ulcerative colitis. Sulfasalazine can suppress NF- κ B activity. Sulfasalazine is a type 1 ferroptosis inducer[1][2][3][4].
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]. Mao C, et al. DHODH-mediated ferroptosis defence is a targetable vulnerability in cancer. Nature. 2021;593(7860):586-590.

[3]. Wahl C, et al. Sulfasalazine: a potent and specific inhibitor of nuclear factor kappa B. J Clin Invest. 1998 Mar 1;101(5):1163-74.

[5]. Chung WJ, et al. Sulfasalazine inhibits the growth of primary brain tumors independent of nuclear factor-kappaB. J Neurochem. 2009 Jul;110(1):182-93.

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

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