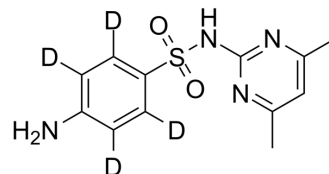


Sulfamethazine-d₄

Cat. No.:	HY-B0035S		
CAS No.:	1020719-82-7		
Molecular Formula:	C ₁₂ H ₁₀ D ₄ N ₄ O ₂ S		
Molecular Weight:	282.35		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (354.17 mM; Need ultrasonic)
 DMSO : 100 mg/mL (354.17 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.5417 mL	17.7085 mL	35.4170 mL
	5 mM	0.7083 mL	3.5417 mL	7.0834 mL
	10 mM	0.3542 mL	1.7709 mL	3.5417 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Sulfamethazine-d₄ is a deuterium labeled Sulfamethazine (Sulfadimidine). Sulfamethazine is an antimicrobial that is widely used to treat and prevent various animal diseases (such as gastrointestinal and respiratory tract infections)[1][2].

REFERENCES

- [1]. VAN Poucke LSG, et al. Pharmacokinetics and Tissue Residues of Sulfathiazole and Sulfamethazine in Pigs. *J Food Prot.* 1994 Sep;57(9):796-801.
- [2]. Sheng Y J, et al. Production of chicken yolk IgY to sulfamethazine: comparison with rabbit antiserum IgG. *Food and Agricultural Immunology.* 2015, 26(3):305-316.

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

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