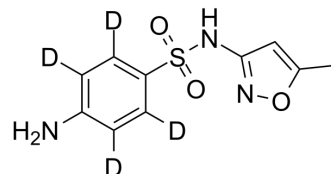


Sulfamethoxazole-d₄

Cat. No.:	HY-B0322S		
CAS No.:	1020719-86-1		
Molecular Formula:	C ₁₀ H ₇ D ₄ N ₃ O ₃ S		
Molecular Weight:	257.3		
Target:	Bacterial; Antibiotic		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (194.33 mM; Need ultrasonic)
 DMSO : 50 mg/mL (194.33 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.8865 mL	19.4326 mL	38.8651 mL
	5 mM	0.7773 mL	3.8865 mL	7.7730 mL
	10 mM	0.3887 mL	1.9433 mL	3.8865 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (9.72 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (9.72 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (9.72 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sulfamethoxazole-d₄ is a deuterium labeled Sulfamethoxazole (Ro 4-2130). Sulfamethoxazole is a sulfonamide bacteriostatic antibiotic[1].

CUSTOMER VALIDATION

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- Anal Bioanal Chem. 2021 Sep;413(23):5901-5920.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Straub JO, et al. Aquatic environmental risk assessment for human use of the old antibiotic sulfamethoxazole in Europe. Environ Toxicol Chem. 2016 Apr;35(4):767-79.

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