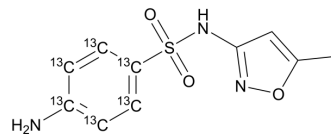


Sulfamethoxazole-¹³C₆

Cat. No.:	HY-B0322S1
CAS No.:	1196157-90-0
Molecular Formula:	¹³ C ₆ H ₁₁ N ₃ O ₃ S
Molecular Weight:	259.23
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (385.76 mM)
 H₂O : 0.1 mg/mL (0.39 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.8576 mL	19.2879 mL	38.5758 mL
	5 mM	0.7715 mL	3.8576 mL	7.7152 mL
	10 mM	0.3858 mL	1.9288 mL	3.8576 mL

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

BIOLOGICAL ACTIVITY

Description

Sulfamethoxazole-¹³C₆ is a ¹³C labeled Sulfamethoxazole. Sulfamethoxazole (Ro 4-2130) is a sulfonamide bacteriostatic antibiotic, used for bacterial infections. Sulfonamides is a competitive antagonist of para-aminobenzoic acid (PABA)[1].

REFERENCES

- [1]. Zambuzzi-Carvalho et al. Transcriptional profile of the human pathogenic fungus *Paracoccidioides lutzii* in response to sulfamethoxazole. *Med Mycol.* 2015;53(5):477-492.
- [2]. Straub JO. Aquatic environmental risk assessment for human use of the old antibiotic sulfamethoxazole in Europe. *Environ Toxicol Chem.* 2016;35(4):767-779.

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

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