

Sulfamethoxazole-D4

Chemical Properties

CAS No. : 1020719-86-1

Formula: C₁₀H₁₁N₃O₃S

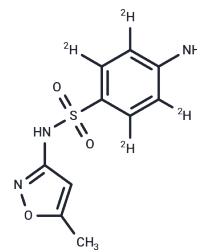
Molecular Weight: 257.3

Keep away from direct sunlight, Store at low temperature

Storage:

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Sulfamethoxazole-D4 is a deuterium labeled Sulfamethoxazole (TMSM-2154), which can be used for isotope tracing. Sulfamethoxazole is a sulfonamide antimicrobial agent.
Targets(IC50)	Others, Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: 40 mg/mL (155.46 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2 mg/mL (7.77 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8865 mL	19.4326 mL	38.8651 mL
5 mM	0.7773 mL	3.8865 mL	7.773 mL
10 mM	0.3887 mL	1.9433 mL	3.8865 mL
50 mM	0.0777 mL	0.3887 mL	0.7773 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mwankuna CJ, Uwamaliya GA, Mariki EE, Mabiki F, Malebo HM, Mdegela R, Styryshave B. A HPLC-MS/MS method for screening of selected antibiotic adulterants in herbal drugs. Anal Methods. 2022 Mar 10;14(10):1060-1068.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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