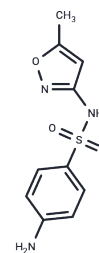


Sulfamethoxazole

Chemical Properties

CAS No. :	723-46-6
Formula:	C10H11N3O3S
Molecular Weight:	253.28
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 (STX 608) is a Sulfonamide Antimicrobial. The mechanism of action of sulfamethoxazole is as a Cytochrome P450 2C9 Inhibitor. The chemical classification of sulfamethoxazole is Sulfonamides.
Targets(IC50)	Antibacterial, Antibiotic, Autophagy

Solubility Information

Solubility	DMSO: 255 mg/mL (1006.79 mM), Sonication is recommended. Ethanol: 22 mg/mL (86.86 mM), Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), (< 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 (7.9 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	3.9482 mL	19.741 mL	39.482 mL
5 mM	0.7896 mL	3.9482 mL	7.8964 mL
10 mM	0.3948 mL	1.9741 mL	3.9482 mL
50 mM	0.079 mL	0.3948 mL	0.7896 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

Winstanley PA, et al. Antimicrob Agents ChemOthers. 1995 Apr;39(4):948-52.

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