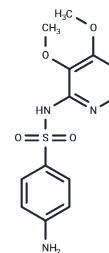


Sulfadoxine

Chemical Properties

CAS No. :	2447-57-6
Formula:	C ₁₂ H ₁₄ N ₄ O ₄ S
Molecular Weight:	310.33
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	Sulfadoxine (Sulphadoxine) is a broad-spectrum sulfanilamide and a synthetic analog of para-aminobenzoic acid (PABA) with bacteriostatic and antimalarial properties.
Targets(IC50)	HIV Protease,Endogenous Metabolite,Antibiotic,Parasite,Autophagy,DHFR
Kinase Assay	Competitive binding assays: Cells are harvested from 150-sq cm T-flasks, and cytosol is prepared at a protein concentration of approximately 2 mg/mL in phosphate buffer. Aliquots of this 180,000 ×g supernatant are then incubated with various concentrations of Tamoxifen and 2.5 nM [3H]estradiol for 16 hr at 0-4 °C. The free steroids are absorbed by dextran-charcoal [10 µL of 0.5% Dextran C-5% Norite A in TE buffer] for 1 hr at 0 °C, and aliquots are counted after centrifugation at 800 ×g, 30 min. The relative binding ability of each competitor is taken as the ratio of the concentration of radioinert estradiol/competitor required to inhibit one-half of the specific [3H]estradiol binding, with the affinity of estradiol set at 100%.

Solubility Information

Solubility	DMSO: 50 mg/mL (161.12 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble), Ethanol: < 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 (6.44 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	3.2224 mL	16.1119 mL	32.2238 mL
5 mM	0.6445 mL	3.2224 mL	6.4448 mL
10 mM	0.3222 mL	1.6112 mL	3.2224 mL
50 mM	0.0644 mL	0.3222 mL	0.6445 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

Raman J, et al. Am J Trop Med Hyg. 2010, 82(5):788-94.

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