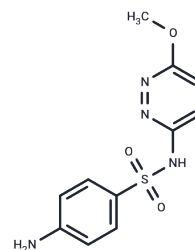


Sulfamethoxypyridazine

Chemical Properties

CAS No. :	80-35-3
Formula:	C ₁₁ H ₁₂ N ₄ O ₃ S
Molecular Weight:	280.3
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Sulfamethoxypyridazine (CL 13494) is a sulfanilamide antibacterial agent.
Targets(IC50)	Antibacterial,Antibiotic,PD-1/PD-L1
In vitro	In goats, following intramuscular (im) and subcutaneous (sc) administration, Sulfamethoxypyridazine has half-lives of 11.0 h and 13.7 h with bioavailabilities of 68.6% and 58.7%, respectively. The distribution and elimination half-lives are 0.1 h and 6.28 h, while the steady-state volume of distribution and total body clearance rates are 0.39 ml/kg/min and 0.73 ml/kg/min, respectively. Preliminary studies in rats infected with <i>Pneumocystis carinii</i> demonstrated that Sulfamethoxypyridazine is very effective. It was also found that treatment of <i>Pneumocystis carinii</i> infection in rats with Sulfamethoxypyridazine (1 mg/kg) is as effective as sulfamethazole. In a mouse model, Sulfamethoxypyridazine effectively combats <i>Pneumocystis carinii</i> , with ED ₅₀ s based on silver stain and Giemsa stain scoring of 0.08 mg/kg/day and 0.06 mg/kg/day, respectively. Treatments of 0.1 mg/kg/day or 0.3 mg/kg/day show more pronounced effects against <i>Pneumocystis carinii</i> in the mouse model than the 0.47 mg/kg/day dose.

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 65 mg/mL (231.89 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5676 mL	17.838 mL	35.6761 mL
5 mM	0.7135 mL	3.5676 mL	7.1352 mL
10 mM	0.3568 mL	1.7838 mL	3.5676 mL
50 mM	0.0714 mL	0.3568 mL	0.7135 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.

Reference

Bartlett MS, et al. Antimicrob Agents Chemother, 1998, 42(4), 934-935.

Garg SK, et al. Vet Res, 1997, 28(1), 101-104.

Garg SK, et al. Rev Elev Med Vet Pays Trop, 1994, 47(2), 215-218.

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