

Sulfamoxole

Chemical Properties

CAS No.:	729-99-7
Formula:	C ₁₁ H ₁₃ N ₃ O ₃ S
Molecular Weight:	267.3
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Sulfamoxole is an antibacterial belonging to sulfonamide.
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Solubility Information

Solubility	Water: Insoluble DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.741 mL	18.706 mL	37.411 mL
5 mM	0.748 mL	3.741 mL	7.482 mL
10 mM	0.374 mL	1.871 mL	3.741 mL
50 mM	0.075 mL	0.374 mL	0.748 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Velluti F, Mosconi N, Acevedo A, Borthagaray G, Castiglioni J, Faccio R, Back DF, Moyna G, Rizzotto M, Torre MH. Synthesis, characterization, microbiological evaluation, genotoxicity and synergism tests of new nano silver complexes with sulfamoxole: X-ray diffraction of [Ag₂(SMX)₂]•DMSO. J Inorg Biochem. 2014 Dec;141:58-69. doi: 10.1016/j.jinorgbio.2014.08.007. Epub 2014 Aug 19. PubMed PMID: 25217718.
2. Grüneberg RN. In vitro studies with combinations of sulfamoxole and trimethoprim (co-trifamole). Curr Med Res Opin. 1982;8(2):128-33. PubMed PMID: 7105824.
3. Gupta KC, Desai NK, Paul T, Sheth UK. Plasma levels of trimethoprim and sulfonamide after administration of trimethoprim-sulfamethoxazole and trimethoprim-sulfamoxole. Int J Clin Pharmacol Ther Toxicol. 1980 Dec;18(12):536-7. PubMed PMID: 7228448.
4. Praharaj SC, Kar AK. Non controlled clinical trial of trimethoprim and sulfamoxole (supristol) in bacterial diarrhoea of children. Indian J Pediatr. 1979 Nov;46(382):411-6. PubMed PMID: 546760.

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