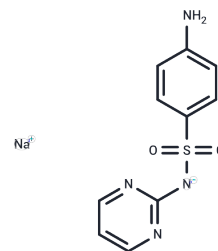


Sulfadiazine sodium

Chemical Properties

CAS No. :	547-32-0
Formula:	C ₁₀ H ₁₀ N ₄ O ₂ S·Na
Molecular Weight:	272.26
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	Sulfadiazine sodium (Sulfadiazin-natrium) is a sodium salt form of sulfadiazine, an intermediate-acting bacteriostatic, synthetic sulfanilamide derivative.
Targets(IC50)	Antibacterial,Antibiotic,Parasite

Solubility Information

Solubility	H ₂ O: 50 mg/mL (183.65 mM),Sonication is recommended. DMSO: 55 mg/mL (202.01 mM),Sonication is recommended. 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 (7.35 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	3.673 mL	18.3648 mL	36.7296 mL
5 mM	0.7346 mL	3.673 mL	7.3459 mL
10 mM	0.3673 mL	1.8365 mL	3.673 mL
50 mM	0.0735 mL	0.3673 mL	0.7346 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

- Jin, C., Chen, Q., Sun, R. et al. Ecotoxicology (2009) 18: 878. <https://doi.org/10.1007/s10646-009-0349-7>
- Xu, M., Zhao, Y., & Yan, Q. (2015). Efficient visible-light photocatalytic degradation of sulfadiazine sodium with hierarchical Bi₇O₉I₃ under solar irradiation. Water Science And Technology, 72(12), 2122-2131. doi: 10.2166/wst.2015.433
- Geng, S., Liu, G., Li, W., & Cui, F. (2013). Molecular interaction of ctDNA and HSA with sulfadiazine sodium by multispectroscopic methods and molecular modeling. Luminescence, 28(5), 785-792. doi: 10.12002/bio.2457

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