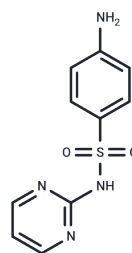


## Sulfadiazine

## Chemical Properties

CAS No. :	68-35-9
Formula:	C <sub>10</sub> H <sub>10</sub> N <sub>4</sub> O <sub>2</sub> S
Molecular Weight:	250.28
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Sulfadiazine (Sulphadiazine) is a synthetic pyrimidinyl sulfonamide derivative, short-acting bacteriostatic Sulfadiazine inhibits bacterial folic acid synthesis by competing with para-aminobenzoic acid. It is used in combination with pyrimethamine to treat toxoplasmosis in patients with acquired immunodeficiency syndrome and in newborns with congenital infections.
Targets(IC50)	Antibacterial,Antibiotic,Parasite,Autophagy

## Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 50 mg/mL (199.78 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	3.9955 mL	19.9776 mL	39.9553 mL
5 mM	0.7991 mL	3.9955 mL	7.9911 mL
10 mM	0.3996 mL	1.9978 mL	3.9955 mL
50 mM	0.0799 mL	0.3996 mL	0.7991 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

- Iliades P, et al. Antimicrob Agents ChemOthers. 2005 Feb;49(2):741-8.  
 Khan K Y, Li G, Du D, et al. Impact of polystyrene microplastics with combined contamination of norfloxacin and sulfadiazine on Chrysanthemum coronarium L. Environmental Pollution. 2022: 120522.

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