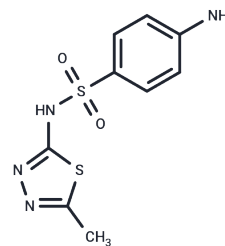


Sulfamethizole

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 144-82-1 |
| Formula: | C ₉ H ₁₀ N ₄ O ₂ S ₂ |
| Molecular Weight: | 270.33 |
| 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 | Sulfamethizole (Sulfamethizol) is a sulfathiazole antibacterial reagent. |
| Targets(IC50) | Antibacterial,Antibiotic,Autophagy |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 250 mg/mL (924.8 mM),Sonication is recommended. Ethanol: 10 mg/mL (36.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+90% Saline: 10 mg/mL (36.99 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.4 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 | 3.6992 mL | 18.4959 mL | 36.9918 mL |
| 5 mM | 0.7398 mL | 3.6992 mL | 7.3984 mL |
| 10 mM | 0.3699 mL | 1.8496 mL | 3.6992 mL |
| 50 mM | 0.074 mL | 0.3699 mL | 0.7398 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

Watanabe H, Hastings JW. Biochim Biophys Acta. 1990 Jun 26;1017(3):229-34.

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