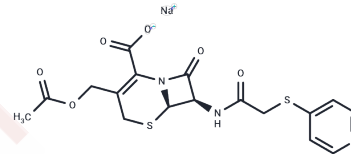


Cephapirin Sodium

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 24356-60-3 |
| Formula: | C ₁₇ H ₁₆ N ₃ O ₆ S ₂ .Na |
| Molecular Weight: | 445.45 |
| 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 | Cefapirin sodium is the sodium salt of Cephapirin, an antimicrobial agent. |
| Targets(IC50) | Antibacterial, Antibiotic |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 20 mg/mL (44.9 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+90% Saline: 2 mg/mL (4.49 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 | 2.2449 mL | 11.2246 mL | 22.4492 mL |
| 5 mM | 0.449 mL | 2.2449 mL | 4.4898 mL |
| 10 mM | 0.2245 mL | 1.1225 mL | 2.2449 mL |
| 50 mM | 0.0449 mL | 0.2245 mL | 0.449 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

Tan JS, et al. Bacampicillin, Ampicillin, Cephalothin, and Cephapirin levels in human blood and interstitial fluid. Antimicrob Agents Chemother. 1979 Apr;15(4):510-2.

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