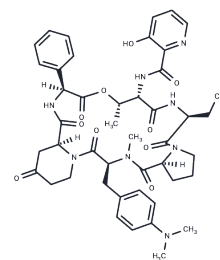


Pristinamycin IA

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 3131-03-1 |
| Formula: | C ₄₅ H ₅₄ N ₈ O ₁₀ |
| Molecular Weight: | 866.96 |
| 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 | Pristinamycin IA (Mikamycin B) is a cyclo-peptidic macrolactone antibiotic and a substrate for the P-glycoprotein. |
| Targets(IC50) | Antibacterial, Antibiotic, P-gp |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 30 mg/mL (34.6 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.5 mg/mL (2.88 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 | 1.1535 mL | 5.7673 mL | 11.5346 mL |
| 5 mM | 0.2307 mL | 1.1535 mL | 2.3069 mL |
| 10 mM | 0.1153 mL | 0.5767 mL | 1.1535 mL |
| 50 mM | 0.0231 mL | 0.1153 mL | 0.2307 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

Phung-Ba V et al. Interaction of pristinamycin IA with P-glycoprotein in human intestinal epithelial cells. Eur J Pharmacol. 1995 Jan 16;288(2):187-92.

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