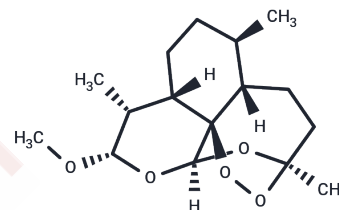


Artemether

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 71963-77-4 |
| Formula: | C ₁₆ H ₂₆ O ₅ |
| Molecular Weight: | 298.37 |
| 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 | Artemether (CGP 56696) is an antimalarial agent used to treat acute uncomplicated malaria. |
| Targets(IC50) | Antibiotic,Parasite |

Solubility Information

| | |
|---------------------|---|
| Solubility | Ethanol: 56 mg/mL (187.69 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 125 mg/mL (418.94 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 (33.52 mM),Solution. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.7 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 | 3.3515 mL | 16.7577 mL | 33.5154 mL |
| 5 mM | 0.6703 mL | 3.3515 mL | 6.7031 mL |
| 10 mM | 0.3352 mL | 1.6758 mL | 3.3515 mL |
| 50 mM | 0.067 mL | 0.3352 mL | 0.6703 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

Ma Y, et al. Antimicrob Agents ChemOthers. 2014 Oct;58(10):5658-65.

Liu Y, Li H, Luo Z, et al. Artesunate, a new antimalarial clinical drug, exhibits potent anti-AML activity by targeting the ROS/Bim and TFRC/Fe²⁺ pathways. British Journal of Pharmacology. 2022

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