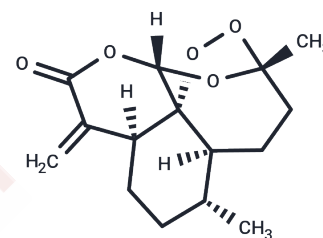


Artemisitene

Chemical Properties

CAS No. :	101020-89-7
Formula:	C ₁₅ H ₂₀ O ₅
Molecular Weight:	280.32
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	Artemisitene is the oxidized form of Artemisinin and is an antimalarial agent. Artemisinin precursors are the important basic substances for biosynthesis of Artemisinin, including Artemisinin B, Artemisitene, Artemisinic acid, etc.
Targets(IC50)	Apoptosis,Others,Nrf2,Topoisomerase

Solubility Information

Solubility	DMSO: 160 mg/mL (570.78 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 (35.67 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (35.67 mM),Suspension. <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	3.5674 mL	17.8368 mL	35.6735 mL
5 mM	0.7135 mL	3.5674 mL	7.1347 mL
10 mM	0.3567 mL	1.7837 mL	3.5674 mL
50 mM	0.0713 mL	0.3567 mL	0.7135 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

Li Y, Wu YL. An over four millennium story behind qinghaosu (artemisinin)--a fantastic antimalarial drug from a traditional chinese herb. Curr Med Chem. 2003 Nov;10(21):2197-230.

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