

Artemitin

Chemical Properties

CAS No. : 479-90-3

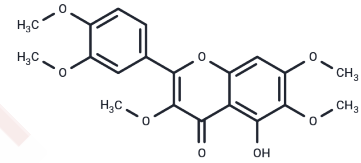
Formula: C₂₀H₂₀O₈

Molecular Weight: 388.37

Storage: Keep away from direct sunlight, Keep away from moisture, Store at low temperature

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	1. Artemitin (Eriarthin) has anti-inflammatory activity. 2. Artemitin (Eriarthin) protects endothelial function by acting as antioxidant and antiapoptotic agent and through the activation of ERK1/2 and Akt. 3. Intravenous injection of Artemitin (Eriarthin) (.75 mg/kg) significantly reduces the hypertensive response to angiotensin I while increases the average length of bradykinin-induced hypotension.
Targets(IC50)	Antioxidant, Antibiotic

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 18.52 mg/mL (47.69 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 1.06 mg/mL (2.73 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	2.5749 mL	12.8743 mL	25.7486 mL
5 mM	0.515 mL	2.5749 mL	5.1497 mL
10 mM	0.2575 mL	1.2874 mL	2.5749 mL
50 mM	0.0515 mL	0.2575 mL	0.515 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

Grossini E , Marotta P , Farruggio S , et al. Effects of Artemetin on Nitric Oxide Release and Protection against Peroxidative Injuries in Porcine Coronary Artery Endothelial Cells[J]. *Phytotherapy Research*, 2015, 29(9):1339-1348.
Pica P. Bioassay-guided isolation and analysis of phytochemicals with endocannabinoid activity in *Achillea millefolium* L. Université d'Ottawa/University of Ottawa. 2025

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