

Aristolactam I

Chemical Properties

CAS No. : 13395-02-3

Formula: C₁₇H₁₁NO₄

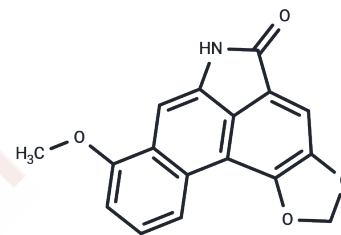
Molecular Weight: 293.27

Keep away from moisture, Keep away from direct sunlight

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	1. Aristolactam I (Aristololactum) has cytotoxic potency, mediated through the induction of apoptosis in a caspase 3-dependent pathway. 2. The effects of Aristolactam I may be mediated by different mechanisms except TGF-beta1 pathway. 3. Aristolactam I may be one of toxic metabolites in Chinese herbs containing AA which participate in renal damage and fibrosis.
Targets(IC50)	Apoptosis, Aquaporin, Caspase, Drug Metabolite, TGF-beta/Smad, Cadherin

Solubility Information

Solubility	DMSO: 22.14 mg/mL (75.49 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 2.21 mg/mL (7.54 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.21 mg/mL (7.54 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	3.4098 mL	17.0491 mL	34.0983 mL
5 mM	0.682 mL	3.4098 mL	6.8197 mL
10 mM	0.341 mL	1.7049 mL	3.4098 mL
50 mM	0.0682 mL	0.341 mL	0.682 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 J , Zhang L , Jiang Z , et al. Toxicities of aristolochic acid I and aristololactam I in cultured renal epithelial cells[J]. Toxicology in Vitro, 2010, 24(4):0-1097.

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