

Aristolochic acid A

Chemical Properties

CAS No. : 313-67-7

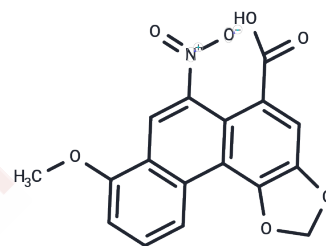
Formula: C₁₇H₁₁NO₇

Molecular Weight: 341.27

Storage: Keep away from direct sunlight, Store under nitrogen,
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	Aristolochic acid A is the main component of the plant extract aristolochic acids, primarily found in the herbaceous plants Aristolochia and Asarum. It significantly inhibits the activity of activator protein 1 (AP-1) and NF-κB, and downregulates the expression of the bladder cancer-associated BLCAP gene in human cells. It is commonly used to induce nephrotoxicity models.
Targets(IC50)	NF-κB

Solubility Information

Solubility	DMSO: 9.13 mg/mL (26.75 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: 1 mg/mL (2.93 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	2.9302 mL	14.6512 mL	29.3023 mL
5 mM	0.586 mL	2.9302 mL	5.8605 mL
10 mM	0.293 mL	1.4651 mL	2.9302 mL
50 mM	0.0586 mL	0.293 mL	0.586 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 L, et al. J Ethnopharmacol. 2015 Aug 22;172:430-5.

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