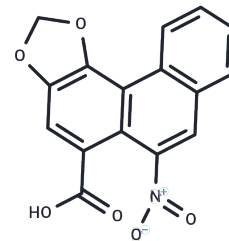


Aristolochic acid B

Chemical Properties

CAS No. :	475-80-9
Formula:	C ₁₆ H ₉ NO ₆
Molecular Weight:	311.25
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	Aristolochic acid B (Aristolochic Acid II) is a natural product from the Aristolochaceae taxon and is one of the main components of aristolochic acid. Aristolochic acid is a mutagen and carcinogen, and Aristolochic acid B (Aristolochic Acid II) can show a greater carcinogenic risk in vivo than Aristolochic acid I.
Targets(IC50)	DNA,DNA Alkylator/Crosslinker
In vivo	METHODS: Aristolochic acid B (Aristolochic Acid II) (5 mg/kg, intragastrically, 5 times a week for 6 weeks) was compared for DNA adduct formation and mutagenicity in the kidneys of gptδ transgenic mice. RESULTS Aristolochic acid B (Aristolochic Acid II) induced mutations at a frequency nearly two-fold higher than that induced by aristolochic acid I, showing a higher carcinogenic risk in vivo than aristolochic acid I, which may be at least partly the result of its elevated levels in the kidneys and plasma. [1]

Solubility Information

Solubility	DMSO: 10 mg/mL (32.13 mM),Sonication is recommended. Chloroform: Soluble, (< 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 (3.21 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	3.2129 mL	16.0643 mL	32.1285 mL
5 mM	0.6426 mL	3.2129 mL	6.4257 mL
10 mM	0.3213 mL	1.6064 mL	3.2129 mL
50 mM	0.0643 mL	0.3213 mL	0.6426 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

Xing G, et al. Comparison of the mutagenicity of aristolochic acid I and aristolochic acid II in the gpt delta transgenic mouse kidney. *Mutat Res.* 2012 Mar 18;743(1-2):52-8.

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