

Product Data Sheet

Product Name: Aristolactam I

Cat. No.: GC35388

Chemical Properties

Cas. No. 13395-02-3

SMILES O=C1NC2=C(C3=C4C(C(OC)=CC=C4)=C2)C1=CC5=C3OCOC5

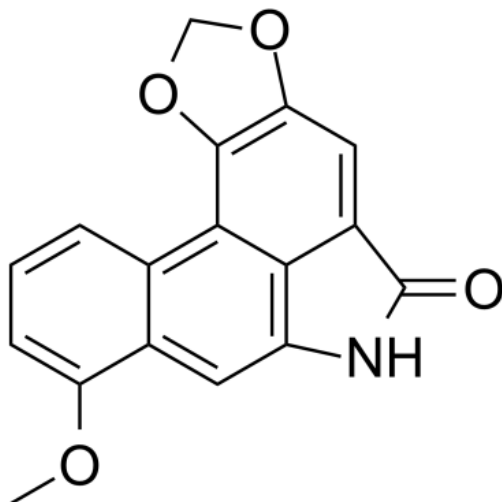
Formula $C_{17}H_{11}NO_4$ M.Wt 293.27

Solubility DMSO : 12.5 mg/mL (42.62 mM; Storage 4°C, protect from light
Need ultrasonic); H₂O : < 0.1 mg/mL
(insoluble)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Caution: Product has not been fully validated for medical applications. For research use only.

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Background

Aristololactam I (AL-I), is the main metabolite of aristolochic acid I (AA-I), participates in the processes that lead to renal damage. Aristololactam I (AL-I) directly injures renal proximal tubule cells, the cytotoxic potency of AL-I is higher than that of AA-I and that the cytotoxic effects of these molecules are mediated through the induction of apoptosis in a caspase-3-dependent pathway[1].

[1]. Li J, et al. Toxicities of aristolochic acid I and aristololactam I in cultured renal epithelial cells. Toxicol In Vitro. 2010 Jun;24(4):1092-7.

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