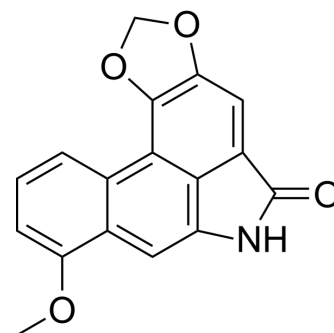


## Aristolactam I

Cat. No.:	HY-N2013
CAS No.:	13395-02-3
Molecular Formula:	C <sub>17</sub> H <sub>11</sub> NO <sub>4</sub>
Molecular Weight:	293.27
Target:	Caspase; Apoptosis
Pathway:	Apoptosis
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 12.5 mg/mL (42.62 mM; Need ultrasonic)  
 H<sub>2</sub>O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		3.4098 mL	17.0491 mL	34.0983 mL
	5 mM		0.6820 mL	3.4098 mL	6.8197 mL
	10 mM		0.3410 mL	1.7049 mL	3.4098 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Aristolactam I (AL-I), is the main metabolite of aristolochic acid I (AA-I), participates in the processes that lead to renal damage. Aristolactam 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<sup>[1]</sup>.

### REFERENCES

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

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA