

## Aristolochic acid C Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Aristolochic acid C

**Catalog No.:** CFN90516

**Cas No.:** 4849-90-5

**Purity:** > 98%

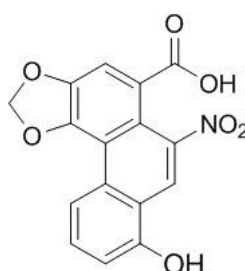
**M.F:** C<sub>16</sub>H<sub>9</sub>NO<sub>7</sub>

**M.W:** 327.25

**Physical Description:** Powder

**Synonyms:** 10-Hydroxy-6-nitrophenanthro[3,4-d]-1,3-dioxole-5-carboxylic acid;

Aristolochic acid IIIa.



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

### [ Source ]

The herbs of *Aristolochia debilis* Sieb. et Zucc.

### [ Biological Activity or Inhibitors ]

Aristolochic acid(AA) is a powerful nephrotoxic and carcinogenic substance with an extremely short latency period, not only in animals but also in humans, in particular, the highly similar metabolic pathway of activation and resultant DNA adducts of AA allows the extrapolation of carcinogenesis data from laboratory animals to the human situation; therefore, all products containing botanicals known to or suspected of containing AA should be banned from the market world wide.<sup>[1]</sup>

### **[ Solvent ]**

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

### **[ HPLC Method ]<sup>[2]</sup>**

Mobile phase: Methanol - 0.2% Acetic acid H<sub>2</sub>O ,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 254 nm.

### **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

### **[ References ]**

[1] Stiborova M, Schmeiser H H, Arlt V M. *Mutagenesis*, 2002, 17(4):265-77.

[2] Ren G, Huang Q, Wu J, *et al. J. Chromatogr. B* , 2014, 953-954(1):73-9.

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