

Aristolactam Allla Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Aristolactam Allla

Catalog No.: CFN97551

Cas No.: 97399-91-2

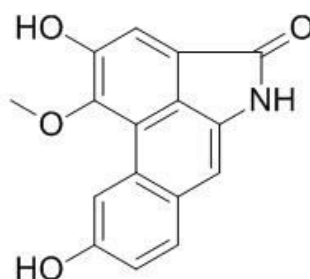
Purity: > 95%

M.F: C₁₆H₁₁NO₄

M.W: 281.3

Physical Description: Yellow powder

Synonyms:



[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]

Aristolactam Allla is a new type of polo-like kinase 1 (Plk1) inhibitor, it can block the

proliferations of HeLa, A549, HGC and the HCT-8/V cells (clinical Navelbine-resistant cancer cell), induce mitotic arrest of HeLa cells at G2/M phase with spindle abnormalities and promote apoptosis in HeLa cells, aristolactam AIIIa may be possibly used as a lead compound for further developing anti-tumor drugs.^[1]

Aristolactam IIIa shows inhibition of platelet aggregation induced by collagen or arachidonic acid.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: 0.2% Acetic acid in water- 0.2% Acetic acid in methanol ,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] Li L, Wang X, Chen J, *et al. Acta Pharmacol. Sin.*, 2009, 30(10):1443-53.

[2] Chia Y C, Chang F R, Teng C M, *et al. J. Nat. Prod.*, 2000, 63(8):1160-3.

[3] Yuan J, Liu Q, Wei G, *et al. Rapid Commun. Mass Sp.*, 2007, 21(14):2332-42.

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