

Aristolochic acid B Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Aristolochic acid B

Catalog No.: CFN99506

Cas No.: 475-80-9

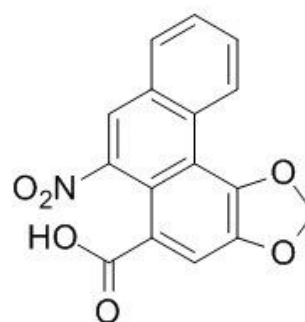
Purity: > 98%

M.F: C₁₆H₉NO₆

M.W: 311.25

Physical Description: Yellow powder

Synonyms: 6-Nitro-5-naphtho[2,1-g][1,3]benzodioxolecarboxylic acid.



[Intended Use]

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

[Source]

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

[Biological Activity or Inhibitors]

Aristolochic acid II (AII), one of the major components of the carcinogenic plant extract aristolochic acid, is known to be mutagenic and to form DNA adducts in vitro and in vivo, AII shows more carcinogenic risk than aristolochic acid I, and this may be, at least partly, the result of its increased levels in kidney and plasma.^[1,2]

Aristolochic acid exhibit significant toxicity, and the short-term toxicity of aristolochic acid-II and aristolochic acid is similar to each other, renal but not hepatic failure induced by aristolochic acid could be prevented by pentoxifylline.^[3]

[Solvent]

Pyridine, DMSO, Methanol, etc.

[HPLC Method]^[4]

Mobile phase: Methanol-H₂O-Acetic acid = 72:27:1;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 250 nm.

[Storage]

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

[References]

[1] Pfau W, Schmeiser H H, Wiessler M. *Chem. Res. Toxicol.*, 1991, 4(5):581-6.

[2] Xing G, Qi X, Min C, *et al. Mutat. Res-Fund. Mol. M.*, 2012, 743(1-2):52-8.

[3] Yeh Y H, Lee Y T, Hsieh H S, *et al. Food Chem. Toxicol.* , 2008, 46(3):1157-63.

[4] Zhu G, Wang Z, Wang Q, *et al. China Pharmacy*, 2006, 17(18):21-4.

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