

Ailanthone Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Ailanthone

Catalog No.: CFN97561

Cas No.: 981-15-7

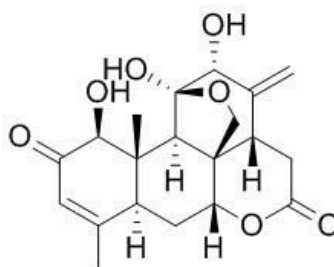
Purity: > 98%

M.F: C₂₀H₂₄O₇

M.W: 376.40

Physical Description: Powder

Synonyms: (1β,11β,12α)-1,11,12-Trihydroxy-11,20-epoxypicrasa-3,13(21)-dien-2,16-dione.



[Intended Use]

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

[Source]

The barks of *Ailanthus altissima*.

[Biological Activity or Inhibitors]

Ailanthone, isolated from the ailanthus altissima bark extract, has herbicidal effects. ^[1]

Ailanthone has potent antineoplastic activity against hepatocellular carcinoma (HCC), it can inhibit huh7 cancer cell growth via cell cycle arrest and apoptosis in vitro and in vivo.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile- 0.2% Formic acid H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Heisey R M, Heisey T K. *Plant & Soil*, 2003, 256(1):85-99.

[2] Zhuo Z, Hu J, Yang X, *et al. Sci. Rep.*, 2015, 5:16185.

[3] Qi X, Chen Z H, Lu G, *et al. Chinese Traditional & Herbal Drugs*, 2011, 42(6):1057-60.

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