

Nimbin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Nimbin

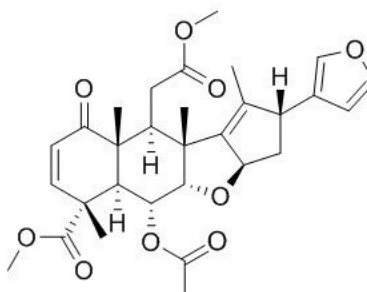
Catalog No.: CFN97722

Cas No.: 5945-86-8

Purity: > 95%

M.F: C₃₀H₃₆O₉

M.W: 540.61



Physical Description: Powder

Synonyms: (4a,5a,6a,7a,15b,17a)-6-(Acetyloxy)-7,15:21,23-diepoxy-4,8-dimethyl-1-oxo-18,24-dinor-11,12-secochola-2,13,20,22-tetraene-4,11-dicarboxylic Acid Dimethyl Ester.

[Intended Use]

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

[Source]

The barks of *Azadirachta indica*.

[Biological Activity or Inhibitors]

Nimbin is an anti-pyretic, can be used to treat arthritis, hypoglycaemia, peptic ulcers, anti-secretory activity, and it can also be used as an antibiotic.^[1]

Nimbin inhibits the ecdysone 20-monooxygenase (E-20-M) in three insect species in a dose-dependent fashion.^[2]

Nimbin shows anti-feedant activity and toxicity against larvae of three species of Lepidoptera, *Spodoptera littoralis* (Boisd), *Spodoptera frugiperda* (FE Smith) and *Helicoverpa armigera* (Hübner) and nymphs of the locusts *Schistocerca gregaria* (Forskål) and *Locusta migratoria* (L).^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-H₂O=90:10 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 214 nm.

[Storage]

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

[References]

[1] Tonthubthimthong P, Chuaprasert S, Douglas P, *et al. J. Food Eng.*, 2001, 47(4): 289-93.

[2] Mitchell M J, Smith S L, Johnson S, *et al. Arch. Insect Biochem. Physiology*, 1997, 35(1-2):199-209.

[3] Simmonds M S, Jarvis A P, Johnson S, *et al. Pest Manag.Sci.*, 2004, 60(5):459-64.

[4] Farooqui N A, Dey A, Singh G N, *et al. International Journal of Pharma & Bio Sciences*, 2015, 6(1):479-90.

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