

Friedelin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Friedelin

Catalog No.: CFN98936

Cas No.: 559-74-0

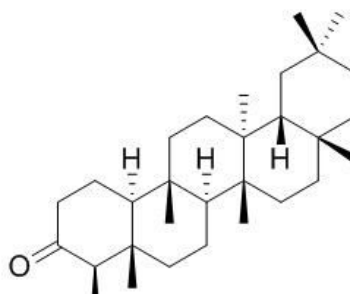
Purity: > 98%

M.F: C₃₀H₅₀O

M.W: 426.7

Physical Description: Powder

Synonyms: 3-Oxofriedelane;3-Friedelanone.



[Intended Use]

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

[Source]

The dry stem of *Juncus effusus* L.

[Biological Activity or Inhibitors]

Friedelin possesses potent anti-inflammatory, analgesic and antipyretic activities.^[1]

Friedelin shows very good scavenging effect on DPPH (IC 50= 21.1mM), hydroxyl (IC 50 =19.8mM), nitric oxide (IC 50= 22.1mM) and superoxide (IC 50= 21.9mM) radicals, it also shows strong suppressive effect on lipid peroxidation; friedelin has liver protective effects on CCl₄ induced oxidative stress .^[2]

Friedelin has anti-diarrhoeal activity, which may be due to its anti-secretory and anti-motility properties. ^[3]

Friedelin rich fraction (IND-HE) shows estrogenic activity as indicated by vaginal cornification, increase in uterine weight and rise in serum estrogen.^[4]

Friedelin can prevent the aggregation of synthetic β amyloid in vitro.^[5]

Friedelin could be a new useful natural gastroprotective tool against gastric ulcer.^[6]

Friedelin can stimulate glucose uptake up to 1.8-fold compared with insulin-treated cells, suggests that friedelin may be beneficial to mimic insulin action that would be useful in the treatment of diabetes type 2 patients.^[7]

[Solvent]

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

[HPLC Method]^[8]

Mobile phase: 0.05% Acetic acid in water- Acetonitrile, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

Evaporating temperature: 40°C.

[Storage]

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

[References]

[1] Antonisamy P, Duraipandiyan V, Ignacimuthu S. *J. Pharm. Pharmacol.*, 2011, 63(8):

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[3] Antonisamy P, Duraipandiyan V, Ignacimuthu S, *et al. South Indian Journal of Biological Sciences*, 2015, 1(1):34-3.

[4] Aswar U M, Bhaskaran S, Mohan V, *et al. Pharmacognosy Research*, 2010, 2(3): 138-45.

[5] Zhao B, Yang H J, Jing Z. *Chinese Pharmaceutical Journal*, 2005, 40(19):1474-7.

[6] Antonisamy P, Duraipandiyan V, Aravinthan A, *et al. Eur. J. Pharmacol.*, 2015, 750: 167-75.

[7] Susanti D, Amiroudine M Z, Rezali M F, *et al. Nat. Prod. Res.*, 2012, 27(4-5):417-24.

[8] Tian Y, Wang Q, Wang Y, *et al. Phytochem. Anal.*, 2009, 20(3):191-6.

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