

Vitexilactone Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Vitexilactone

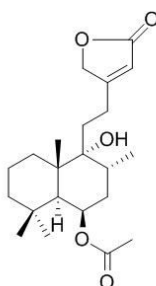
Catalog No.: CFN97047

Cas No.: 61263-49-8

Purity: >=98%

M.F: C₂₂H₃₄O₅

M.W: 378.51



Physical Description: Powder

Synonyms: 4-[2-[(1R,4aα)-Decahydro-4β-acetoxy-1α-hydroxy-2α,5,5,8aβ-tetramethylnaphthalen-1-yl]ethyl]furan-2(5H)-one; 4-[2-[(4aα)-4β-Acetoxy-1-hydroxy-2α,5,5,8aβ-tetramethyldecalin-1β-yl]ethyl]-2(5H)-furanone.

[Intended Use]

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

[Source]

The seeds of *Vitex trifolia* L.

[Biological Activity or Inhibitors]

Vitexilactone dramatically induces apoptosis both on tsFT210 and K562 cells at higher concentrations while at lower concentrations it inhibits the cell cycle progression of both tsFT210 and K562 cells at the G0/G1 phase; it is one anticancer component of *Vitex trifolia* L., which exerts its anti-proliferative effect on cancer cells through inducing apoptosis and inhibiting the cell cycle.^[1]

Vitexilactone has trypanocidal activity, the minimum lethal concentration against epimastigotes of *Trypanosoma cruzi* is 66 microM .^[2]

Vitexilactone is a HIV-1 reverse transcriptase inhibitor in virtual screening against Indonesian Herbal Database using AutoDock4 performed on HIV-1 reverse transcriptase.^[3]

[Solvent]

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

[HPLC Method]

Not data available.

[Storage]

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

[References]

[1] Li W X, Cui C B, Yao X S. *J. Asian Nat. Prod. Res.*, 2005, 7(2):95-105.

[2] Kiuchi F, Matsuo K, Ito M, *et al. Chem. Pharm. Bull.*, 2005, 36(22):1492-4.

[3] Riadhi S R, Abdul M, Heru S, *et al. Bioinformation*, 2012, 8(24):1206-10.

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