

Isolinderalactone Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Isolinderalactone

Catalog No.: CFN99762

Cas No.: 957-66-4

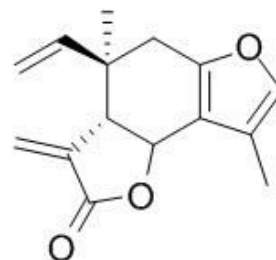
Purity: > 98%

M.F: C₁₅H₁₆O₃

M.W: 244.29

Physical Description: Cryst.

Synonyms: (3aS)-4,8-Dimethyl-3-methylene-4β-ethenyl-3aβ,4,5,8bβ-tetrahydrobenzo[1,2-b:3,4-b']difuran-2(3H)-one.



[Intended Use]

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

[Source]

The roots of *Lindera aggregata* (Sims) Kosterm.

[Biological Activity or Inhibitors]

Isolinderalactone, a kind of sesquiterpenoids compound, was purified from the root of *Lindera strychnifolia* and *Neolitsea daibuensis* and shows anti-inflammatory and anticancer capacity, it induces apoptosis in MDA-MB-231 cells and suppresses STAT3 signaling pathway through regulation of SOCS3 and miR-30c, may become a novel treatment for triple-negative breast cancer in the future.^[1]

Isolinderalactone may cause the cell cycle arrest of A549 cells by induction of p21, and induce apoptosis of A549 human non-small-cell lung carcinoma cells through the Fas/sFasL apoptotic system.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Methanol : Acetonitrile : H₂O=35:15: 40;

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 235 nm.

[Storage]

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

[References]

[1] Yen M C, Shih Y C, Hsu Y L, *et al. Oncol. Rep.*, 2016, 35(3):1356-64.

[2] Chang W A, Lin E S, Tsai M J, *et al. Mol. Med. Rep.*, 2014, 9(5):1653-9.

[3] Shu J N, Ouyang R. *Chinese Journal of Modern Drug Application*, 2009, 3(8):7-8.

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