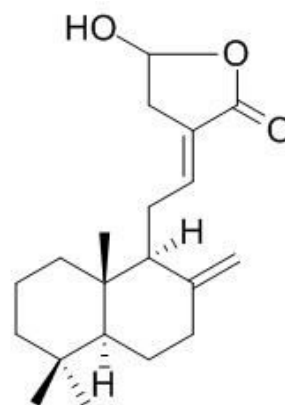


Coronarin D Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Coronarin D**Catalog No.:** CFN99302**Cas No.:** 119188-37-3**Purity:** > 98%**M.F:** C₂₀H₃₀O₃**M.W:** 318.5**Physical Description:** Powder**Synonyms:** 2(3H)-Furanone, 3-[2-[(1S,4aS,8aS)-decahydro-5,5,8a-trimethyl-2-methylene-1-naphthalenyl]ethylidene]dihydro-5-hydroxy-, (3E)-.**[Intended Use]**

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

[Source]The rhizomes of *Hedychium coronarium*.

[Biological Activity or Inhibitors]

Coronarin D, a labdane-type diterpene, from *Hedychium coronarium*, it inhibits NF-kappaB activation pathway, which leads to inhibition of inflammation, invasion, and osteoclastogenesis, as well as potentiation of apoptosis.^[1]

Coronarin D is active against tested Gram-positive bacteria, inactive for tested Gram-negative bacteria, and weakly active against tested fungi; using coronarin D-antibiotic drug combination can combat the infectious diseases .^[2]

Coronarin D shows promising antifungal activity against *C. albicans* in vitro, the minimum inhibitory concentration (MIC) and the minimum fungicidal concentration (MFC) were 2 and 4 mg/mL, respectively. ^[3]

[Solvent]

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

[HPLC Method]

Mobile phase: Acetonitrile-H₂O gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Kunnumakkara A B, Ichikawa H, Anand P, *et al. Mol .Cancer Ther.*, 2008, 7(10): 3306-17.

[2] Reukngam N, Chimnoi N, Khunnawutmanotham N, *et al. Biomed. Res. Int.*, 2014(14) :85-117.

[3] Kaomongkolgit R, Jamdee K. *Or.Surg. Or. Med. Or. Pa.*, 2012, 114(1):61-6.

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