

Dehydro-alpha-lapachone Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Dehydro-alpha-lapachone

Catalog No.: CFN99641

Cas No.: 15297-92-4

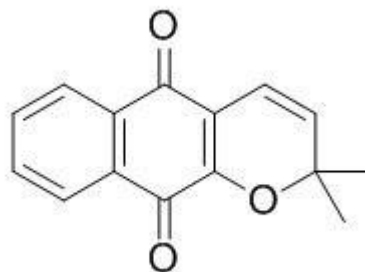
Purity: > 95%

M.F: C₁₅H₁₂O₃

M.W: 240.3

Physical Description: Orange powder

Synonyms: 2,2-Dimethylbenzo[g]chromene-5,10-dione.



[Intended Use]

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

[Source]

The roots of *Radermachera sinica*.

[Biological Activity or Inhibitors]

Dehydro- α -lapachone is an antifungal substance, it can completely inhibit the mycelial growth of *B. cinerea*, *Colletotrichum acutatum* Simmonds, *Colletotrichum gloeosporioides* Simmonds, *M. grisea* and *Pythium ultimum* Trow over a range of 0.4-33.3 mg litre⁽⁻¹⁾, it also can control the development of rice blast, tomato late blight, wheat leaf rust, barley powdery mildew and red pepper anthracnose (*Colletotrichum coccodes* (Wallr) S Hughes).^[1]

Dehydro- α -lapachone can inhibit vessel regeneration, interfere with vessel anastomosis, and limit plexus formation in zebrafish, it also can induce vascular pruning and growth delay in orthotopic mammary tumors in mice; shows that dehydro- α -lapachone targets cell adhesion by promoting ubiquitination of the Rho-GTPase Rac1, which is frequently up-regulated in many different cancers.^[2]

[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] Cho J Y, Kim H Y, Choi G J, *et al. Pest Manag. Sci.*, 2006, 62(5):414-8.

[2] Garkavtsev I, Chauhan V P, Wong H K, *et al. Proc.Natl.Acad.Sci.U.S. A.*, 2011, 108(28): 11596-601.

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