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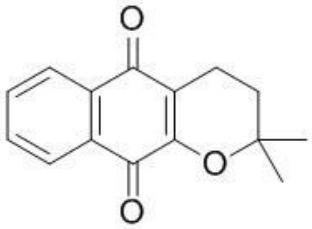
3rd Edition (Revised in January, 2014)

[Product Information]

Name: alpha-Lapachone

Catalog No.: CFN98702

Cas No.: 4707-33-9



Purity: > 98%

M.F: $C_{15}H_{14}O_3$

M.W: 242.3

Physical Description: Yellow powder

Synonyms:

2,2-dimethyl-3,4-dihydrobenzo[g][1]benzopyran-5,10-dione;

3,4-Dihydro-2,2-dimethyl-2H-naphtho[2,3-b]pyran-5,10-dione

[Intended Use]

1. Reference standards;

2. Pharmacological research;

3. Synthetic precursor compounds;

4. Intermediates & Fine Chemicals;

5. Others.

[Source]

The barks of *Catalpa ovata*

[Applications]

Beta-lapachone determined the appearance of large amounts of H2O2 in the suspension medium, as measured spectrophotometrically by formation of the H2O2 horse radish peroxidase complex. Under similar conditions, alpha-lapachone did not induce H2O2 formmation.

The oxyranes 10 derived from alpha-lapachone showed an approximately the same trypanocidal activity of beta-lapachone. In addition, all the oxyranes showed less cytotoxicity than the corresponding naphthoquinones.

[Solvent]

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

[HPLC Method]

Mobile phase: Methanol-H2O gradient elution;

Flow rate: 1.0 ml/min;

The wave length of determination: 287 nm.

[Storage]

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

[References]

1. J.C.S.(C), 1967, 2100.

2. Chem. Pharm. Bull., 1975, 23, 384.

3. J. Org. Chem., 1969, 34(1), 120-126.

4. Revista de la Asociacion Argentina de Microbiologia, 1977, 9(2), 54-61.

5. Parasitol Res., 2006, 99(4), 429-433.