

## 9-Hydroxy-alpha-lapachone Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** 9-Hydroxy-alpha-lapachone

**Catalog No.:** CFN98215

**Cas No.:** 22333-58-0

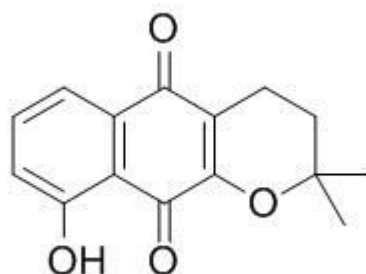
**Purity:** > 95%

**M.F:** C<sub>15</sub>H<sub>14</sub>O<sub>4</sub>

**M.W:** 416.6

**Physical Description:** Yellow powder

**Synonyms:** 9-Hydroxy-2,2-dimethyl-3,4-dihydrobenzo[g]chromene-5,10-dione.



### [ Intended Use ]

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

### [ Source ]

The herbs of *Catalpa ovata*.

### [ Biological Activity or Inhibitors ]

9-Hydroxy-alpha-lapachone demonstrates inhibitory activities against *H. pylori*

Cystathionine gamma-synthase (HpCGS) with IC<sub>50</sub> values of, 9 +/- 1 microM, it prevents the binding of I-OSHS to HpCGS in a non-competitive fashion; it also can highly inhibit the growth of H. pylori and exhibit strong inhibitory specificity against H. pylori related to E. coli.<sup>[1]</sup>

9-Hydroxy-alpha-lapachone exhibits potent inhibitory effects on lipopolysaccharide-induced NO synthesis in RAW 264.7 cells, with IC<sub>50</sub> values of 4.64 microM, suggests that it may have anti-inflammatory activity.<sup>[2]</sup>

### **[ 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] Kong Y, Wu D, Bai H, *et al.* *J. Biochem.*, 2008 Jan; 143(1):59-68.

[2] Park B M, Hong S S, Lee C, *et al.* *Arch. Pharm. Res.*, 2010, 33(3):381-5.

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