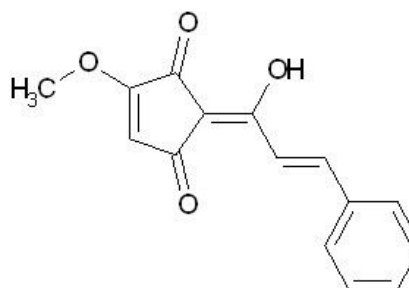


Lucidone Datasheet

5th Edition (Revised in January, 2017)**[Product Information]****Name:** Lucidone**Catalog No.:** CFN98011**Cas No.:** 19956-53-7**Purity:** > 98%**M.F:** C₁₅H₁₂O₄**M.W:** 256.3**Physical Description:** Yellow powder**Synonyms:** 2-[(1Z,2E)-1-Hydroxy-3-phenyl-2-propenylidene]-4-methoxy-4-cyclopentene-1,3-dione; 2-(1-Hydroxy-3-phenyl-2-propenylidene)-4-methoxy-4-cyclopentene-1,3-dione.**[Intended Use]**

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

[Source]The root of *Lindera strychnifolia*.

[Biological Activity or Inhibitors]

Lucidone has anti-inflammatory activity, the activity might be caused by the inhibition of iNOS and COX-2 expressions through downregulation of NF-kappaB and AP-1 binding.^[1]

Lucidone has hepatoprotective effect, it-mediated up-regulation of phase-II enzymes and HO-1 via Nrf-2 signaling pathway may provide a pivotal mechanism for its hepatoprotective action.^[2]

Lucidone may possess antioxidant and anti-inflammatory properties and may be useful for the prevention of free radical-induced skin damage.^[3]

Dietary intake of lucidone alleviates high fat diet-induced obesity in C57BL/6 mice and reveals the potential of lucidone as a nutraceutical to prevent obesity and consequent metabolic disorders.^[4]

Lucidone accelerates wound healing through the cooperation of keratinocyte/fibroblast/ endothelial cell growth and migration and macrophage inflammation via PI3K/AKT, Wnt/ β -catenin and NF- κ B signaling cascade activation.^[5]

[Solvent]

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

[HPLC Method]^[6]

Mobile phase: 0.1% Acetic acid in water- Acetonitrile, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 252 nm.

[Storage]

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

[References]

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- [2] Senthil Kumar K J, Liao J W, Xiao J H, *et al. Toxicol. in Vitro*, 2012, 26(26):700-8.
- [3] Kumar K J, Yang H L, Tsai Y C, *et al. Food Chem. Toxicol.* ,2013, 59:55-66.
- [4] Hsieh Y H, Wang S Y. *Phytomedicine.*, 2013, 20(5):394-400.
- [5] Yang H L, Tsai Y C, Korivi M, *et al. Biochim. Biophys. Acta.* 2017,1864(1):151-68.
- [6] Qi Y, Zhao L, Sun H H. *Front Pharmacol.* 2012, 3: 85.

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