

Galanolactone Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Galanolactone

Catalog No.: CFN99258

Cas No.: 115753-79-2

Purity: > 98%

M.F: C₂₀H₃₀O₃

M.W: 318.5

Physical Description: Powder

Synonyms:(3E)-3-[2-[(1R,2S,4aS,8aS)-5,5,8a-trimethyl-1-spiro[3,4,4a,6,7,8-hexahydro-

1H-naphthalene-2,2'-oxirane]yl]ethylidene]-2-oxolanone.

[Intended Use]

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

[Source]

The rhizomes of Zingiber officinale Roscoe.

[Biological Activity or Inhibitors]

Galanolactone, a diterpenoid isolated from ginger, has anti-5-HT effect with a pIC50 value 4.93, is related to antagonism of 5-HT3 receptors; it is a 5HT3 receptor antagonist, it might increase the release of acetylcholine to act as memory enhancer, it is effective in improving both spatial working memory and long term memory.^[1,2]

Galanolactone exerts anti-obesity effect through downregulation of adipogenic transcription factors and adipogenic marker genes.^[3]

Galanolactone has some anti-tumor effect and antifungal activity.[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile-0.05%Phosphoric acid H2O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 264 nm.

[Storage]

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

[References]

[1] Huang Q R, Iwamoto M, Aoki S, et al. Chem. Pharm. Bull., 1991, 39(2):397-9.

[2] Pal A, Sahu P K, Juadi S, et al. Pharmacologyonline, 2010, 3:102-11.

[3] Ahn E K, Oh J S. J. Korean Soc. App. Bi., 2012, 55(1):63-8.

[4] Shi Yujun. Modern drugs and clinical, 1989 (2).

[5] Zhao X D, Chen X H, Geng L L, et al. Journal of Pharmaceutical Analysis, 2009 (12): 2036-9.

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