

Spathulenol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Spathulenol

Catalog No.: CFN97150

Cas No.: 6750-60-3

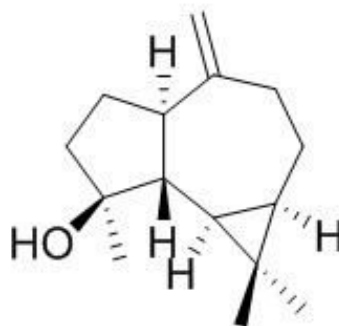
Purity: > 98%

M.F: C₁₅H₂₄O

M.W: 220.4

Physical Description: Oil

Synonyms: (1aR,4aR,7S,7aR,7bR)-1,1,7-trimethyl-4-methylene-1a,2,3,4a,5,6,7a,7b-octahydrocyclopropa[h]azulen-7-ol; 10(14)-Aromadendren-4-ol.



[Intended Use]

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

[Source]

The herbs of *Salvia sclarea*.

[Biological Activity or Inhibitors]

Spathulenol may be one of the immunomodulatory compounds present in *Salvia mirzayanii*, it shows the capacity to inhibit proliferation in the lymphocytes and to induce apoptosis in these cells possibly through a caspase-3 independent pathway; treatment of activated lymphocytes with a concentrated fraction containing 62% of spathulenol shows a decrease in the proliferation of lymphocytes with an IC₅₀ of $85.4 \pm 11.08 \mu\text{g/mL}$.^[1]

Spathulenol presents moderate or low cytotoxicity with IC₅₀ higher than 6 μM , it is a good candidate to be used in combination chemotherapy of MDR cancer and therefore is worthy for further in vivo studies.^[2]

[Solvent]

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

[HPLC Method]^[3]

GS-MS method:

Chromatographic conditions:

Inlet temperature: 250 °C;

Flow rate of gas (He): 45.1 mL / min;

Column flow rate: 0.85 mL / min;

Temperature program: initial column temperature of 80 °C to 280 °C;

MS conditions:

Ion source temperature: 200 °C;

Electron Energy: 70 eV;

Interface temperature: 280 °C;

Mass scan range: 50-600 u.

[Storage]

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

[References]

- [1] Ziaei A, Ramezani M, Wright L, *et al. Phytother. Res.*, 2011, 25(4):557-62.
- [2] Vasas A, Molnár J, Hohmann J, *et al. Planta Med.*, 2010, 76(12):1349-1349.
- [3] Xu N J, Bai H B, Yan X J, *et al. Analysis and Testing Technology*, 2006, 25 (1): 90-3.

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