

Scopoline Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Scopoline

Catalog No.: CFN00228

Cas No.: 487-27-4

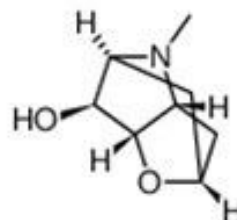
Purity: > 98%

M.F: C₈H₁₃NO₂

M.W: 155.20

Physical Description: Oil

Synonyms: (2R,3aR,5R,6S,6aS)-4-methylhexahydro-2H-2,5-methanofuro[3,2-b]pyrrol-6-ol; (6S)-4-methylhexahydro-2H-2,5-methanofuro[3,2-b]pyrrol-6-ol.



[Intended Use]

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

[Source]

The herbs of *Atropa belladonna*.

[Biological Activity or Inhibitors]

Scopoline, tropinol, ecgonine, and granatoline derivatives are therapeutic agents of the pyrrole and pyridine group.^[1]

Scopoletin and scopolin can contribute to a cooperative effect causing plant inhibition in the natural environment and therefore be a factor of ecological significance.^[2]

Scopoline has fungitoxic effects, it is inhibitory to Sclerotinia at similar doses to scopoletin; as scopolin is known to be less phytotoxic than ayapin and scopoletin, its accumulation may well confer head rot resistance with minimal plant damage and might be one of the bases for resistance to Sclerotinia.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Methanol- 0. 1% phosphate H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 325 nm

[Storage]

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

[References]

[1] Von Oettingen W F. *Food and Agriculture Organization of the United Nations*. 1936.

[2] Einhellig F A, Rice E L, Risser P G, *et al. Bulletin of the Torrey Botanical Club*, 1970, 97(1):22-33.

[3] Prats E, Bazzalo M E, A León, *et al. Euphytica*, 2006, 147(3):451-60.

[4] Tan R, Wang Y J, Zhang Y X, *et al. China Journal of Chinese Materia Medica*, 2014,

39(6):1054-7.

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