

Clerosterol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Clerosterol

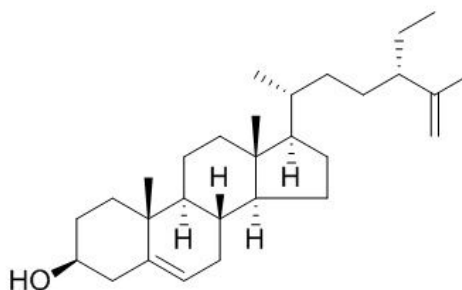
Catalog No.: CFN90787

Cas No.: 2364-23-0

Purity: > 95%

M.F: C₂₉H₄₈O

M.W: 412.7



Physical Description: Powder

Synonyms: (24S)-24-Ethylcholesta-5,25(27)-diene-3β-ol; (24S)-25,26-Didehydro-24-ethyl cholesterol; (24S)-Stigmasta-5,25-diene-3β-ol.

[Intended Use]

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

[Source]

The herbs of *Clerodendrum cwtophyllum* Turcz.

[Biological Activity or Inhibitors]

Clerosterol as a precursor of cyasterone, isocyasterone and 29-norcyasterone in biosynthesis of phytoecdysteroids of *Ajuga* hairy roots.^[1]

Clerosterol exerts its cytotoxic effect in A2058 human melanoma cells by caspases-dependent apoptosis.^[2]

[Solvent]

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

[HPLC Method]^[3]

HPLC-MS:

Mobile phase: Methanol-1% Acetonitrile in water, gradient elution ;

Flow rate: 0.2 ml/min;

Column temperature: 30 °C;

Heated vaporization temperature: 390 °C;

Heated capillary temperature: 150 °C;

Sheath gas: 45 psi;

Auxiliary gas: 20 psi;

Discharge current: 5 íA.

[Storage]

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

[References]

[1] Okuzumi K, Hara N, Fujimoto Y, *et al. ChemInform*, 2003, 34(13):323-6.

[2] Kim A D, Lee Y, Kang S H, *et al. Marine Drugs*, 2013, 11(2):418-30.

[3] Hoet S, Pieters L, Muccioli G G, *et al. J. Nat. Prod.*, 2007, 70(8):1360-3.

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