

Ergosterol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Ergosterol

Catalog No.: CFN98980

Cas No.: 57-87-4

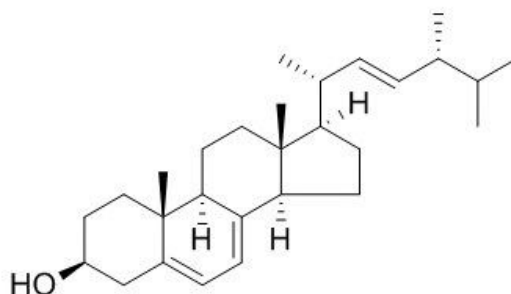
Purity: > 98%

M.F: C₂₈H₄₄O

M.W: 396.7

Physical Description: Powder

Synonyms: 3β-Hydroxy-5,7,22-ergostatriene, 5,7,22-Ergostatrien-3β-ol, Provitamin D₂; Ergosterin.; Ertron.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Care and daily chemicals;
7. Intermediates & Fine Chemicals;
8. Ingredient in supplements;
9. Others.

[Source]

The endophytic fungus of *Ocimum basilicum*.

[Biological Activity or Inhibitors]

The critical requirement for ergosterol in V-ATPase function may underlie the antifungal activity of azoles.^[1]

Ergosterol can promote pheromone signaling and plasma membrane fusion in mating yeast.^[2]

Ergosterol should be used cautiously as a biomarker for living fungi.^[3]

[Solvent]

Chloroform, Dichloromethane, DMSO, Acetone.

[HPLC Method]^[4]

Mobile phase: Methanol-H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 282 nm.

[Storage]

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

[References]

[1] Zhang Y Q, Gamarra S, Garciaeffron G, *et al. Plos Pathog*, 2010, 6(6):e1000939.

[2] Jin H, Mccaffery J M, Grote E. *J. Cell Biol.*, 2008, 180(4):813-26.

[3] Mille-Lindblom C, Wachenfeldt E V, Tranvik L J.J. *Microbiol. Meth.*, 2004, 59(2):253-62.

[4] Tong S S ,Zhong H, Cheng X Y, *et al. Biomed. Chromatogr.*, 2014, 28(2):247-54.

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