Natural Products

ChemFaces

Ergosta-4,6,8(14),22-tetraen-3-one Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Ergosta-4,6,8(14),22-tetraen-3-one

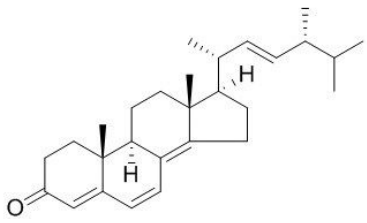
Catalog No.: CFN99889

Cas No.: 19254-69-4

Purity: > 95%

M.F: $C_{28}H_{40}O$

M.W: 392.62



Physical Description: Powder

Synonyms: (22E)-Ergosta-4,6,8(14),22-tetraen-3-one.

[Intended Use]

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

[Source]

The fruit body of *Polyporus umbellatus.*

[Biological Activity or Inhibitors]

Ergosta-4,6,8(14),22-tetraen-3-one can induce G2/M cell cycle arrest and apoptosis in

human hepatocellular carcinoma HepG2 cells, these results would be useful for the further utilization of many medicinal fungi in cancer treatment.[1]

Ergosta-4,6,8(14),22-tetraen-3-one from the Sclerotia of Polyporus umbellatus has cytotoxic activity against human gastric cancer cell.[2]

Ergosta-4,6,8(14),22-tetraen-3-one treatment can confer protection against early renal injury in a rat model of aristolochic acid (AA) nephropathy, early administration of it may prevent the progression of renal injury and the subsequent renal fibrosis in AA nephropathy. [3]

Ergosta-4,6,8(14),22-tetraen-3-one has inhibitory activity of nitric oxide production in RAW 264.7 cells stimulated by lipopolysaccharide was examined and shows a potential activity with the IC(50) value of 28.96 microM.[4]

[Solvent]

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

[HPLC Method][5]

Mobile phase: Methanol-H2O =99:1;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 350 nm.

[Storage]

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

[References]

[1] Zhao Y Y, Shen X, Chao X, *et al. Biochim. Biophys. Acta. , 2011, 1810(4):384-90.*

[2] Lee W Y, Park Y K, Ahn J K, *et al. Bull. Korean Chem. Soc., 2005, 26(9):1464-6.*

[3] Zhao Y Y, Zhang L, Mao J R, *et al. J. Pharm. Pharmacol., 2011, 63(12):1581-6.*

[4] Quang D N, Bach D D. *Nat. Prod. Res., 2008, 22(10):901-6.*

[5] Zhao Y Y, Qin X Y, Zhang Y M, *et al. Biomed. Chromatogr., 2010, 24(10):1120-4.*

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