

Product Data Sheet

Product Name: Clerosterol

Cat. No.: GC91583

Chemical Properties

Cas. No. 2364-23-0

Formula C₂₉H₄₈O

M.Wt 412.7

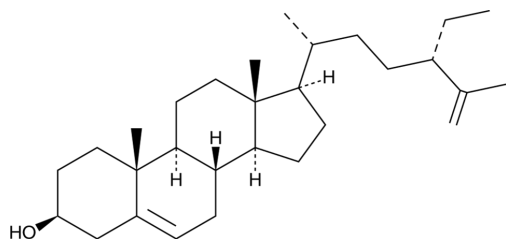
Solubility THF: soluble

Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Clerosterol is a phytosterol that has been found in *C. fragile* and has diverse biological activities.^[1],^[2] It is active against *T. b. brucei* (IC₅₀ = 53.6 µg/ml).^[1] Clerosterol inhibits the proliferation of A2058 melanoma cells (IC₅₀ = 150 µM).^[2] It induces apoptosis, cell cycle arrest at the sub-G₁ phase, and mitochondrial membrane depolarization in A2058 cells when used at a concentration of 150 µM.

References:

- [1].Hoet, S., Pieters, L., Muccioli, G.G., et al. Antitrypanosomal activity of triterpenoids and sterols from the leaves of *Strychnos spinosa* and related compounds. *J. Nat. Prod.* 70(8)1360-1363(2007).
- [2].Kim, A.D., Lee, Y., Kang, S.-H., et al. Cytotoxic effect of clerosterol isolated from *Codium fragile* on A2058 human melanoma cells. *Mar. Drugs* 11(2)418-430(2013).

Caution: Product has not been fully validated for medical applications. For research use only.

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