

Product Data Sheet

Product Name: 3-Dehydrotrametenolic acid

Cat. No.: GC35106

Chemical Properties

Cas. No. 29220-16-4

SMILES CC1(C)[C@@H](O)CC[C@]2(C)C3=CC[C@]4(C)[C@@H]([C@H](C(O)=O)CC/C=C(C)\C)CC[C@](C)4C3=CC[C@@]12[H]

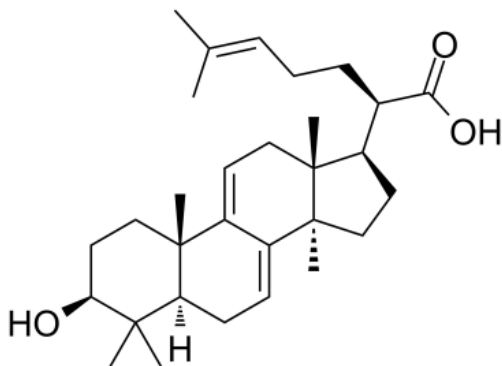
Formula $C_{30}H_{46}O_3$ M.Wt 454.68

Solubility Soluble in DMSO Storage 4°C, protect from light

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

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

Structure



Background

3-Dehydrotrametenolic acid, isolated from the sclerotium of *Poria cocos*, is a lactate dehydrogenase (LDH) inhibitor. 3-Dehydrotrametenolic acid promotes adipocyte differentiation in vitro and acts as an insulin sensitizer in vivo. 3-Dehydrotrametenolic acid induces apoptosis and has anticancer activity^[1]^[2]. Lactate dehydrogenase ^[1]

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

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References:

- [1]. De Nicola GR, et al. Novel gram-scale production of enantiopure R-sulforaphane from Tuscan black kale seeds. *Molecules*. 2014 May 27;19(6):6975-86.
- [2]. Abdull Razis AF, et al. The natural chemopreventive phytochemical R-sulforaphane is a far more potent inducer of the carcinogen-detoxifying enzyme systems in rat liver and lung than the S-isomer. *Int J Cancer*. 2011 Jun 15;128(12):2775-82.

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