

Product Data Sheet

Product Name: Curcumenol

Cat. No.: GC41611

Chemical Properties

Cas. No. 19431-84-6

SMILES CC([C@@]1([H])[C@]([C@@H](C)CC1)(O2)C/3)=C[C@]2(O)C3=C(C)/C

Formula C₁₅H₂₂O₂

M.Wt 234.3

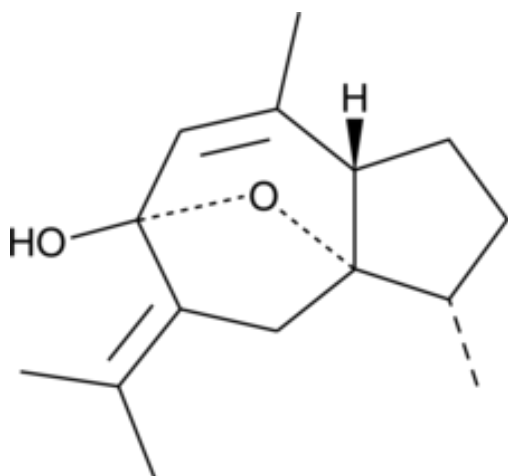
Solubility DMF: 10 mg/ml, DMSO: 5 mg/ml, Ethanol: 3 mg/ml, PBS (pH 7.2): 0.3 mg/ml

Storage Store at -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

Curcumenol ((+)-Curcumenol) is a potent CYP3A4 inhibitor with an IC₅₀ of 12.6 μM, which is one of constituents in the plants of medicinally important genus of *Curcuma zedoaria*, with neuroprotection, anti-inflammatory, anti-tumor and hepatoprotective activities. Curcumenol ((+)-Curcumenol) suppresses Akt-mediated NF-κB activation and p38 MAPK signaling pathway in LPS-stimulated BV-2 microglial cells[1][2].

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

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References:

- [1]. Sun DX, et al. Inhibitory effects of curcumenol on human liver cytochrome P450 enzymes. *Phytother Res.* 2010 Aug;24(8):1213-6.
- [2]. Lo JY, et al. Curcumenol isolated from *Curcuma zedoaria* suppresses Akt-mediated NF- κ B activation and p38 MAPK signaling pathway in LPS-stimulated BV-2 microglial cells. *Food Funct.* 2015 Nov;6(11):3550-9.

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