

Sugiol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Sugiol

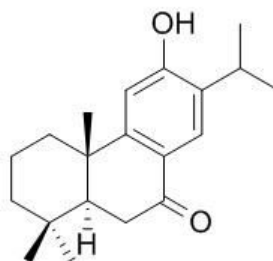
Catalog No.: CFN92187

Cas No.: 511-05-7

Purity: >95%

M.F: C₂₀H₂₈O₂

M.W: 300.4



Physical Description: Powder

Synonyms: 4aS,10aS)-6-hydroxy-1,1,4a-trimethyl-7-propan-2-yl-3,4,10,10a-tetrahydro-2H-phenanthren-9-one; (+)-Sugiol; (4aS)-2,3,4,4a,10,10a-Hexahydro-6-hydroxy-1,1,4a-trimethyl-7-isopropylphenanthren-9(1H)-one; 12-Hydroxyabieta-8,11,13-triene-7-one; 10-Deoxoxanthoperol.

[Intended Use]

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

[Source]

The herbs of *Salvia yunnanensis*.

[Biological Activity or Inhibitors]

Sugiol is a diterpene which was isolated and purified from alcohol extracts of the bark of *Calocedrus formosana* Florin (Cupressaceae), it has low inhibitory activity against the DPPH radical, it can effectively reduce intracellular reactive oxygen species (ROS) production in lipopolysaccharide (LPS)-stimulated macrophages; it also has potential anti-inflammatory activity, sugiol's efficacy in inhibiting the inflammatory cytokines of IL-1 β and TNF- α could be attributed to a reduction of the ROS that leads to a decrease in the phosphorylation of MAPKs.^[1]

Sugiol inhibits signal transducer and activator of transcription 3 (STAT3) activity via regulation of transketolase and ROS-mediated ERK activation in DU145 prostate carcinoma cells, sugiol could be as an inhibitor of the STAT3 pathway for the treatment of human solid tumors with activated STAT3.^[2]

Sugiol has antiviral activity, sugiol (500 pg/ml) exhibits considerable anti-cytopathic effect on MDCK cell line confirming its antiviral efficacy against HiN1 influenza virus, sugiol could be a candidate of choice in combinational regimen with potential antiviral efficacy.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: 0.1% Formic acid in water- 0.1% Formic acid in acetonitrile, gradient elution ;

Flow rate: 0.5 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 300 nm.

[Storage]

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

[References]

- [1] Chao K P, Hua K F, Hsu H Y, *et al. Planta Med.*, 2005, 71(4):300-5.
- [2] Kim J, Lee Y J, Shin D S, *et al. Bioorg. Med. Chem.*, 2011, 19(24):7582-9.
- [3] Bajpai V K, Kim N H, Kim K, *et al. Pak. J. Pharm. Sci.*, 2016, 29(3(Suppl)):1077-80.
- [4] Fronza M, Murillo R, Ślusarczyk S, *et al. Bioorg. Med. Chem.*, 2011, 19(16):4876-81.

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