

Product Data Sheet

Product Name: Monascin

Cat. No.: GC38930

Chemical Properties

Cas. No. 21516-68-7

SMILES O=C([C@@H]1C(CCCCC)=O)O[C@]2(C)[C@]1([H])CC(C=C(/C=C/C)OC3)=C3C2=O

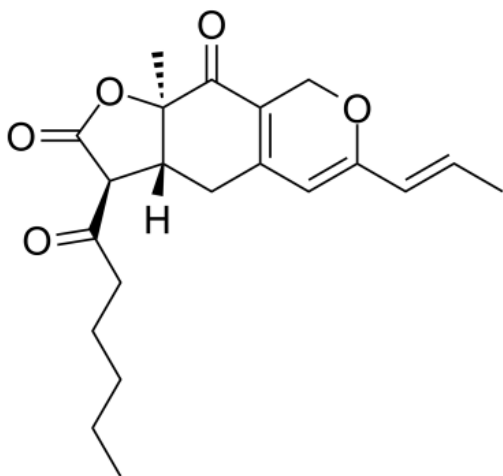
Formula $C_{21}H_{26}O_5$ M.Wt 358.43

Solubility DMSO : 50 mg/mL (139.50 mM; Need ultrasonic) 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

Monascin is a kind of azaphilone pigments extracted from *Monascus pilosus*-fermented rice (red-mold rice). Monascin also exhibits anti-tumor-initiating activity and anti-inflammatory activity with oral administration. Monascin inhibits the activation of NOR 1 (an NO donor)[1][2].

Monascin (0.0025% in drinking water; mice) appears effective for the inhibition of UVB-initiated carcinogenesis on mouse skin[1]. Animal Model: SENCAR mouse using a UVB irradiation as an

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initiator and TPA as a promoter[1].

[1]. Akihisa T, et al. Anti-tumor-initiating effects of monascin, an azaphilone pigment from the extract of *Monascus pilosus* fermented rice (red-mold rice). *Chem Biodivers*. 2005 Oct;2(10):1305-9.

[2]. Lee CL, et al. *Monascus* fermentation of *dioscorea* for increasing the production of cholesterol-lowering agent--monacolin K and antiinflammation agent--monascin. *Appl Microbiol Biotechnol*. 2006 Oct;72(6):1254-62.

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