

Product Data Sheet

Product Name: Nimbin
Cat. No.: GC46185

Chemical Properties

Cas. No. 5945-86-8

SMILES CC1=C2[C@@]3(C)[C@H](CC(OC)=O)[C@@]4(C)C(C=C[C@](C(OC)=O)(C)[C@]4([H])[C@@H](OC(C)=O)[C@@]3([H])O[C@]2([H])C[C@@]1([H])C5=COC=C5)=O

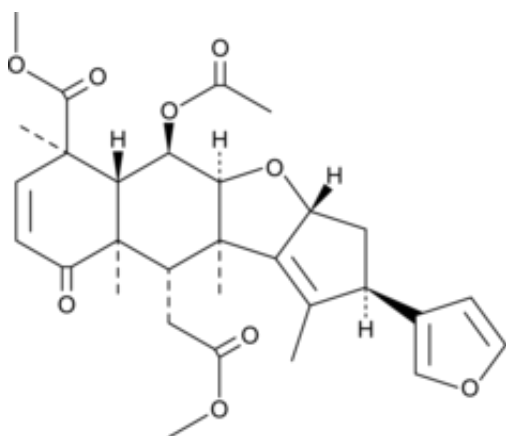
Formula C₃₀H₃₆O₉ M.Wt 540.6

Solubility Chloroform: slightly soluble, Ethyl Acetate: slightly soluble 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

Nimbin is a limonoid that has been found in neem seeds and has diverse biological activities.^{1,2,3} It inhibits the growth of the plant pathogenic fungus *D. oryzae* by 64.8% when used at a concentration of 1,000 ppm.¹ Nimbin (0.02-2,000 µM) has antifeedant activity against *S. littoralis* in a choice test.² It decreases melanin content to 20.9% of control, without affecting viability, in B16 murine melanoma cells when used at a concentration of 25 µg/ml.³ Nimbin inhibits activation of Epstein-Barr virus early antigen (EBV-EA) induced by phorbol 12-myristate 13-acetate in Raji cells (IC₅₀ = 499 mol ratio/32

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

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pmol TPA).

[3. Akihisa, T., Noto, T., Takahashi, A., et al. Melanogenesis inhibitory, anti-inflammatory, and chemopreventive effects of limonoids from the seeds of *Azadirachta indica* A. juss. (neem). *J. Oleo. Sci.* 58(11), 581-594 (2009).

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