

Product Data Sheet

Product Name: Seselin
Cat. No.: GC46221

Chemical Properties

Cas. No. 523-59-1

SMILES O=C1C=CC(C=CC2=C3C=CC(C)(C)O2)=C3O1

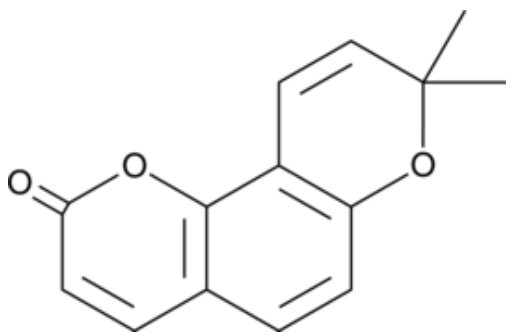
Formula C₁₄H₁₂O₃ M.Wt 228.2

Solubility Soluble in DMSO 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 sizes: ship with RT, or blue ice upon request.

Structure



Background

Seselin is an angular pyranocoumarin that has been found in *M. semecarpifolia* and has diverse biological activities.^{1,2,3,4} It is cytotoxic to P388 and HT-29 cells in vitro (EC₅₀s = 8.66 and 9.94 µg/ml).¹ Seselin (0.5, 4.5, and 40.5 mg/kg) reduces acetic acid-induced writhing in mice.² It also reduces paw licking in the first and second phases of the formalin test in mice when administered 30 minutes prior to formalin. Seselin (3, 10, and 30 mg/kg) decreases serum levels of IL-1β, IL-6, and TNF-α in a mouse model of sepsis induced by cecal ligation and puncture and increases survival when administered at a dose of 30 mg/kg.³ It reduces ear edema induced by phorbol 12-myristate 13-acetate in mice (ED₄₅ = 0.25 mg/ear).⁴

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

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|1. Chou, H.-C., Chen, J.-J., Duh, C.-Y., et al. Cytotoxic and anti-platelet aggregation constituents from the root wood of Melicope semecarpifolia. *Planta Med.* 71(11), 1078-1081 (2005).|2. Lima, V., Silva, C.B., Mafezoli, J., et al. Antinociceptive activity of the pyranocoumarin seselin in mice. *Fitoterapia* 77(7-8), 574-578 (2006).|3. Feng, L., Sun, Y., Song, P., et al. Seselin ameliorates inflammation via targeting Jak2 to suppress the proinflammatory phenotype of macrophages. *Br. J. Pharmacol.* 176(2), 317-333 (2019).|4. García-Argáez, A.N., Ramírez Apan, T.O., Parra Delgado, H., et al. Anti-inflammatory activity of coumarins from Decatropis bicolor on TPA ear mice model. *Planta Med.* 66(3), 279-281 (2000).

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