

Product Data Sheet

Product Name: Sesquicillin A

Cat. No.: GC48076

Chemical Properties

Cas. No. 51103-58-3

SMILES C=C1CC[C@@]([C@](CC/C=C(C)/C)(C)[C@H](OC(C)=O)CC2)([H])[C@]2(C)[C@H]1CC3=C(O)C(C)=C(C)OC3=O

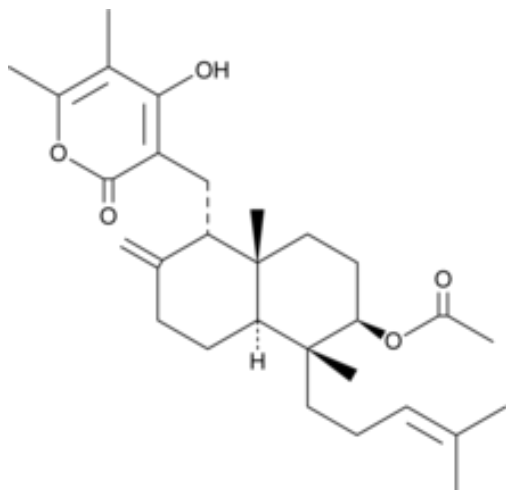
Formula C₂₉H₄₂O₅ M.Wt 470.6

Solubility Dichloromethane: soluble, DMSO: Storage Store at -20°C
soluble, Ethanol: soluble, Methanol: soluble

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

Sesquicillin A is a fungal metabolite that has been found in *Albophoma*.¹ It inhibits the growth of *A. salina* brine shrimp (MIC = 6.25 µg/ml). Sesquicillin is cytotoxic to Jurkat cells (IC₅₀ = 34 µM). It induces cell cycle arrest at the G₁ phase and inhibits proliferation of MCF-7 breast cancer cells when

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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used at a concentration of 20 µg/ml.²

1.Uchida, R., Imasato, R., Yamaguchi, Y., et al.New sesquicillins, insecticidal antibiotics produced by *Albophoma* sp. FKI-1778J. *Antibiot. (Tokyo)*58(6)397-404(2005) 2.Jeong, H.W., Lee, H.J., Kho, Y.H., et al.Biological effects of G1 phase arrest compound, sesquicillin, in human breast cancer cell lines*Bioorg. Med. Chem.*10(10)3129-3134(2002)

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