

Product Data Sheet

Product Name: Sydowinin B

Cat. No.: GC48764

Chemical Properties

Cas. No. 58450-00-3

SMILES O=C(C(C(O)=CC=C1OC2=CC(CO)=CC(O)=C23)=C1C3=O)OC

Formula C₁₆H₁₂O₇

M.Wt 316.3

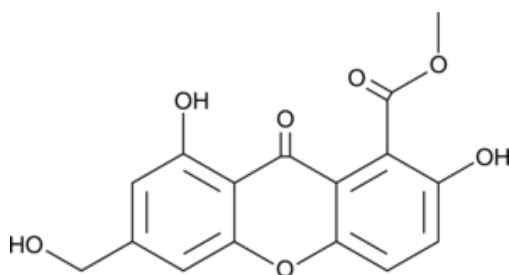
Solubility

Storage -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

Sydowinin B is a xanthone polyketide that has been found in *A. sydowii* and has immunosuppressant activity.¹ It inhibits LPS- or concanavalin A-induced proliferation of isolated mouse splenic lymphocytes (IC₅₀s = 19.2 and 20.8 µg/ml, respectively).² Sydowinin B inhibits superoxide generation in, and elastase release from, isolated human neutrophils induced by cytochalasin B and N-Formyl-Met-Leu-Phe with IC₅₀ values of 21.2 and 12.62 µM, respectively.³

1. Hamasaki, T., Sato, Y., and Hatsuda, Y. Structure of sydowinin A, sydowinin B, and sydowinol, metabolites from *Aspergillus sydowii* Agr. Biol. Chem. 39(12)2341-2345(1975) 2. Liu, H., Chen, S., Liu, W., et al. Polyketides with immunosuppressive activities from mangrove endophytic fungus *Penicillium* sp. ZJ-SY2 Mar. Drugs 14(12)217(2016) 3. Chung, Y.-M., Wei, C.-K., Chuang, D.-W., et al. An epigenetic modifier enhances the production of anti-diabetic and anti-inflammatory sesquiterpenoids

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

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from *Aspergillus sydowii* Bioorg. Med. Chem. 21(13)3866-3872(2013)

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