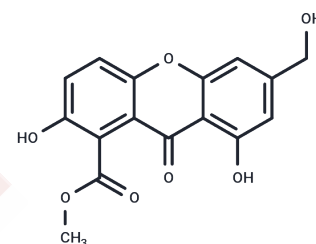


Sydowinin B

Chemical Properties

CAS No. :	58450-00-3
Formula:	C ₁₆ H ₁₂ O ₇
Molecular Weight:	316.26
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Sydowinin B is a xanthone polyketide that has been found in <i>Aspergillus sydowii</i> and has immunosuppressant activity. It inhibits LPS- or concanavalin A-induced proliferation of isolated mouse splenic lymphocytes (IC ₅₀ s = 19.2 and 20.8 µg/ml, respectively). Sydowinin B inhibits superoxide generation in, and elastase release from, isolated human neutrophils induced by cytochalasin B and N-Formyl-Met-Leu-Phe with IC ₅₀ values of 21.2 and 12.62 µM, respectively. ³
Targets(IC ₅₀)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.162 mL	15.8098 mL	31.6196 mL
5 mM	0.6324 mL	3.162 mL	6.3239 mL
10 mM	0.3162 mL	1.581 mL	3.162 mL
50 mM	0.0632 mL	0.3162 mL	0.6324 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- 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)
- 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)
- Chung, Y.-M., Wei, C.-K., Chuang, D.-W., et al. An epigenetic modifier enhances the production of anti-diabetic and anti-inflammatory sesquiterpenoids from *Aspergillus sydowii* Bioorg. Med. Chem. 21(13)3866-3872(2013)

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