

Eichlerianic acid

Chemical Properties

CAS No.:	56421-13-7
Formula:	C ₃₀ H ₅₀ O ₄
Molecular Weight:	474.7
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Eichlerianic acid is a trypanocidal compound with an IC ₅₀ value of 10 mg/mL. Eichlerianic acid may have antiviral activity against Herpes simplex virus types I and II in vitro. Eichlerianic acid shows weak cytotoxicity (IC ₅₀ 6.87 to >40 µM) against human cancer cell (HL-60, SMMC-7721, A-549, MCF-7 and SW480).
Targets(IC ₅₀)	HSV: None
In vitro	METHODS AND RESULTS: Twelve compounds were isolated from the roots of <i>Aglaia odorata</i> . Their structures were established on the basis of NMR and MS data as rocaglaol (1), rocaglamide (2), eichlerialactone (3), sapelins A (4), isofouquierone (5), Eichlerianic acid (6), shoreic acid (7), agladupol E (8), 3-epimeliantriol (9), cleomiscosins B (10), 2β,3β-dihydroxy-5α-pregnane-16-one (11) and β-d-glucopyranos-1-yl N-methylpyrrole-2-carboxylate (12). CONCLUSIONS: Among them, compounds 1 and 2 showed significant cytotoxicity against human cancer cell (HL-60, SMMC-7721, A-549, MCF-7 and SW480) with IC ₅₀ values of 0.007-0.095 µM, while compounds 3-5 and 10 and 11 showed moderate to no cytotoxicity (IC ₅₀ 0.43 to values >40 µM). Compound 6 showed only weak cytotoxicity (IC ₅₀ 6.87 to >40 µM) and its epimer 7 was completely inactive (IC ₅₀ >40 µM) in the assay. However, potent synergistic effect was observed when the molar ratio of 6 to 7 is between 4:1 and 1:1.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.107 mL	10.533 mL	21.066 mL
5 mM	0.421 mL	2.107 mL	4.213 mL
10 mM	0.211 mL	1.053 mL	2.107 mL
50 mM	0.042 mL	0.211 mL	0.421 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Cytotoxicity and Synergistic Effect of the Constituents from Roots of *Aglaia odorata* (Meliaceae). *Nat Prod Res.* 2016;30(4):433-7.
2. In vitro antiviral activity of dammar resin triterpenoids. *J Nat Prod.* 1987 Jul-Aug;50(4):706-13.

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