

Tectol

Chemical Properties

CAS No.:	24449-39-6
Formula:	C ₃₀ H ₂₆ O ₄
Molecular Weight:	450.5
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Tectol has anti-plasmodial activity, it as a moderately active growth inhibitor with an IC ₅₀ 3.44±0.20μM. It exhibited significant activity against human leukemia cell lines HL60 and CEM. Tectol may cause itchy dermatitis, the dermatitis appeared on the neck, upper legs, underarms, and trunk area.
In vitro	METHODS AND RESULTS: Eleven known compounds and a new prenylated naphthoquinone, lippsidoquinone (13), were isolated from ethanol extracts of Lippia sidoides. Their structures were established by a combination of 1D and 2D NMR, IR, and EIMS spectral data analysis. The cytotoxic properties of compounds 3--13 were evaluated against HL60, SW1573, and CEM cell lines. CONCLUSIONS: Only Tectol (6) and lippsidoquinone (13) exhibited significant activity against human leukemia cell lines HL60 and CEM.

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	2.220 mL	11.099 mL	22.198 mL
5 mM	0.444 mL	2.220 mL	4.440 mL
10 mM	0.222 mL	1.110 mL	2.220 mL
50 mM	0.044 mL	0.222 mL	0.444 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. Chemical constituents from Lippia sidoides and cytotoxic activity. J Nat Prod. 2001 Jun;64(6):792-5.
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Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481