

Tectol

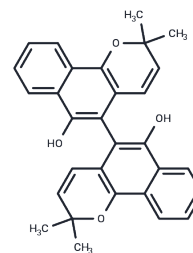
Chemical Properties

CAS No. : 24449-39-6

Formula: C₃₀H₂₆O₄

Molecular Weight: 450.52

Storage: Store at low temperature, Keep away from direct sunlight, Keep away from moisture
 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	Tectol has anti-plasmodial activity, it as a moderately active growth inhibitor with an IC ₅₀ of 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.
Targets(IC ₅₀)	Parasite, Transferase
In vitro	Eleven known compounds and a new prenylated naphthoquinone, lippsidoquinone, 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. Only Tectol and lippsidoquinone exhibited significant activity against human leukemia cell lines HL60 and CEM[1].

Solubility Information

Solubility	DMSO: 55 mg/mL (122.08 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1.67 mg/mL (3.71 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2197 mL	11.0983 mL	22.1966 mL
5 mM	0.4439 mL	2.2197 mL	4.4393 mL
10 mM	0.222 mL	1.1098 mL	2.2197 mL
50 mM	0.0444 mL	0.222 mL	0.4439 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

Costa SM, et al. Chemical constituents from *Lippia sidoides* and cytotoxic activity. *J Nat Prod.* 2001 Jun;64(6):792-5.
Cadelis MM, et al. Discovery and preliminary structure-activity relationship studies on tecomaquinone I and tectol as novel farnesyltransferase and plasmodial inhibitors. *Bioorg Med Chem.* 2016;24(14):3102-3107.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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