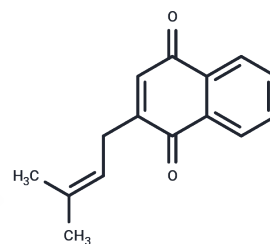


## Deoxylapachol

## Chemical Properties

CAS No. :	3568-90-9
Formula:	C <sub>15</sub> H <sub>14</sub> O <sub>2</sub>
Molecular Weight:	226.27
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	Deoxylapachol has anti-wood rot activity, it can inhibit the brown rot fungi <i>Gloeophyllum sepiarium</i> CBS 353.74 and <i>Gloeophyllum trabeum</i> CBS 318.50 and the white rot fungi <i>Merulius tremellosus</i> CBS 280.73 and <i>Phlebia brevispora</i> CBS 509.92. It also can induce fungal cell wall stress.
Targets(IC50)	Antifection,Antifungal
In vitro	Teak ( <i>Tectona grandis</i> L.f., Verbenaceae) sawdust extract inhibited the growth of <i>Aspergillus niger</i> . By (1)H-NMR the active compounds were identified as Deoxylapachol and tectoquinone. Two <i>A. niger</i> transgenic strains which show induction of 1,3 -alpha-D-glucan synthase were used as a cell wall damage model[1]. Deoxylapachol is active against P-388 leukemia cells with IC50 of 0.6 microgm/ml).

## Solubility Information

Solubility	DMSO: 150 mg/mL (662.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4195 mL	22.0975 mL	44.195 mL
5 mM	0.8839 mL	4.4195 mL	8.839 mL
10 mM	0.4419 mL	2.2097 mL	4.4195 mL
50 mM	0.0884 mL	0.4419 mL	0.8839 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

Activity of quinones from teak (*Tectona grandis*) on fungal cell wall stress. *Planta Med.* 2006 Aug;72(10):943-4.  
N B Perry, et al. A cytotoxic and antifungal 1,4-naphthoquinone and related compounds from a New Zealand brown algae, *Landsburgia quercifolia*. *J Nat Prod.* Jul-Aug 1991;54(4):978-85.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481