

Homopterocarpin

Chemical Properties

CAS No.:	606-91-7
Formula:	C ₁₇ H ₁₆ O ₄
Molecular Weight:	284.31
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Homopterocarpin and Pterocarpus extract offer gastroprotection against indomethacin- induced ulcer by antioxidative mechanism and the modulation of gastric homeostasis, homopterocarpin may be responsible for, or contribute to the antiulcerogenic property of <i>P. erinaceus</i> . Homopterocarpin can contribute to the hepatoprotective and antioxidant potentials of <i>P. erinaceus</i> extract in acetaminophen-provoked hepatotoxicity. It can inhibit (lower concentration) or kill (higher concentration) human's liver cancer cells under the cultured condition, they have anticancer activity. (-)-Homopterocarpin has active insect antifeedant against both <i>S. litura</i> and <i>R. speratus</i> . (+)-Homopterocarpin also has antimitotic effect.
Targets(IC ₅₀)	Antifection: None
In vitro	An observation on the anticancer activity of Homopterocarpin and medicarpin in vitro, which was separated from the root of <i>Glycyrrhiza pallidiflora</i> Maxim. METHODS AND RESULTS: The cell culture test was used in these studies in vitro. The experimental result showed that these two ingredients could inhibit (lower concentration) or kill (higher concentration) human's liver cancer cells under the cultured condition, moreover, the effect of medicarpin was stronger than that of Homopterocarpin. CONCLUSIONS: These two monomers were active components of <i>Glycyrrhiza pallidiflora</i> Maxim.

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	3.517 mL	17.586 mL	35.173 mL
5 mM	0.703 mL	3.517 mL	7.035 mL
10 mM	0.352 mL	1.759 mL	3.517 mL
50 mM	0.070 mL	0.352 mL	0.703 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. The inhibitory effects of homopterocarpin and medicarpin on human's liver cancer cells in vitro. Journal of Shenyang Pharmaceutical University, 2001, 18(3):211-212.

Inhibitors · Natural Compounds · Compound Libraries

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