Homopterocarpin

### Chemical Properties

- **CAS No.**: 606-91-7
- **Formula**: C17H16O4
- **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 P. erinaceus. Homopterocarpin can contribute to the hepatoprotective and antioxidant potentials of P. erinaceus extract in acetaminophen-provoked hepatotoxicity. It can inhibit (lower concentration) or kill (higher concentration) human liver cancer cells under the cultured condition; they have anticancer activity. (-)-Homopterocarpin has active insect antifeedant against both S. litura and R. speratus. (+)-Homopterocarpin also has antimitotic effect.

**Targets (IC50)**

- **Antifection**: None

**In vitro**: An observation on the anticancer activity of Homopterocarpin and medicarpin in vitro, which was separated from the root of Glycyrrhiza pallidiflora 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 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 Glycyrrhiza pallidiflora Maxim.

### Solubility Information

**Solubility**: < 1 mg/ml refers to the product slightly soluble or insoluble

**Preparing Stock Solutions**

<table>
<thead>
<tr>
<th>Solubility</th>
<th>1mg</th>
<th>5mg</th>
<th>10mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>3.517 mL</td>
<td>17.586 mL</td>
<td>35.173 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.703 mL</td>
<td>3.517 mL</td>
<td>7.035 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.352 mL</td>
<td>1.759 mL</td>
<td>3.517 mL</td>
</tr>
<tr>
<td>50 mM</td>
<td>0.070 mL</td>
<td>0.352 mL</td>
<td>0.703 mL</td>
</tr>
</tbody>
</table>

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