

## Zeylenol

## Chemical Properties

CAS No.:	78804-17-8
Formula:	C <sub>21</sub> H <sub>20</sub> O <sub>7</sub>
Molecular Weight:	384.38
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	(-)-Zeylenol shows antifeedant activity. Zeylenol shows inhibitory activity toward the root growth of <i>Lactuca sativa</i> . Zeylenol probably possesses anti-inflammatory activity by inhibiting the synthesis or release of various inflammatory mediators and might be used to induce human breast cancer MDA-MB231 cell apoptosis.
Targets(IC <sub>50</sub> )	Caspase: None Immunology & Inflammation related: None
In vitro	METHODS AND RESULTS: Two novel polyoxygenated cyclohexenes, 6-methoxyZeylenol (3) and 2-acetoxyzeylenone (4), together with two known compounds, Zeylenol (1) and zeylenone (2), were isolated from the heartwood of the Chinese tree, <i>Uvaria purpurea</i> . CONCLUSIONS: Zeylenol (1) and zeylenone (2) both showed inhibitory activity toward the root growth of <i>Lactuca sativa</i> . Their structures were established by spectroscopic and chemical methods.

## 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	2.602 mL	13.008 mL	26.016 mL
5 mM	0.520 mL	2.602 mL	5.203 mL
10 mM	0.260 mL	1.301 mL	2.602 mL
50 mM	0.052 mL	0.260 mL	0.520 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. Four polyoxygenated cyclohexenes from the Chinese tree, *Uvaria purpurea*. *Biosci Biotechnol Biochem*. 2001 Jun;65(6):1395-8.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481