

## Precocene II

## Chemical Properties

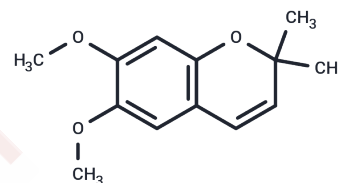
CAS No. : 644-06-4

Formula: C<sub>13</sub>H<sub>16</sub>O<sub>3</sub>

Molecular Weight: 220.26

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	Precocene II (Ageratochromene), an antiallotropin compound, inhibits juvenile hormone biosynthesis. Precocene II has insecticidal, antifungal, antibacterial, and antioxidant activities.
Targets(IC50)	Others,Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 6.25 mg/mL (28.38 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	4.5401 mL	22.7004 mL	45.4009 mL
5 mM	0.908 mL	4.5401 mL	9.0802 mL
10 mM	0.454 mL	2.270 mL	4.5401 mL
50 mM	0.0908 mL	0.454 mL	0.908 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

Furukawa T, Sakamoto N, Suzuki M, Kimura M, Nagasawa H, Sakuda S. Precocene II, a Trichothecene Production Inhibitor, Binds to Voltage-Dependent Anion Channel and Increases the Superoxide Level in Mitochondria of *Fusarium graminearum*. PLoS One. 2015 Aug 6;10(8):e0135031. doi: 10.1371/journal.pone.0135031. eCollection 2015. PubMed PMID: 26248339; PubMed Central PMCID: PMC4527739.

Singh S, Kumar K. Sensitivity of last larval stadium of *Chrysomya megacephala* (Fabricius) to anti-allatin ageratochromene Precocene II. Indian J Exp Biol. 2011 Aug;49(8):600-8. PubMed PMID: 21870428.

Ribeiro VL, dos Santos JC, Martins JR, Schripsema J, Siqueira IR, von Poser GL, Apel MA. Acaricidal properties of the essential oil and precocene II obtained from *Calea serrata* (Asteraceae) on the cattle tick *Rhipicephalus (Boophilus) microplus* (Acari: Ixodidae). Vet Parasitol. 2011 Jun 30;179(1-3):195-8. doi: 10.1016/j.vetpar.2011.02.006. Epub 2011 Feb 15. PubMed PMID: 21402447.

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