

## Precocene II Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Precocene II

**Catalog No.:** CFN97706

**Cas No.:** 644-06-4

**Purity:** >=98%

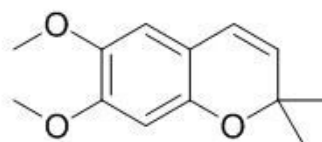
**M.F:** C<sub>13</sub>H<sub>16</sub>O<sub>3</sub>

**M.W:** 220.27

**Physical Description:** Powder

**Synonyms:** 6,7-Dimethoxy-2,2-dimethyl-2h-1-benzopyra;Ageratochromene;

6,7-Dimethoxy-2,2-dimethylchromene.



### [ Intended Use ]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

### [ Source ]

The herbs of *Centaurea solstitialis* L.

### [ Biological Activity or Inhibitors ]

Precocene II could be as insect growth regulators, the effects of it can be counteracted by subsequent application of juvenile hormone 1.<sup>[1]</sup>

Precocene II has acaricidal properties.<sup>[2]</sup>

Precocene II is an active anti-juvenile hormone compound, has been shown to be hepatotoxic in male Sprague-Dawley rats. <sup>[3]</sup>

Precocene II has antigonadotropic and antiallatal effects.<sup>[4]</sup>

## **[ Solvent ]**

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

## **[ HPLC Method ]<sup>[5]</sup>**

HPLC-ESI

Mobile phase: 0.1% Formic acid in water- 0.1% Formic acid in acetonitrile, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The capillary voltage: 20V;

Capillary temperature : 270 °C;

The tube lens: 110 V;

The source voltage: 3.5 kV;

Sheath gas flow, 40 arb. units;

Aux gas flow, 20 arb. Units.

## **[ Storage ]**

2-8°C, Protected from air and light, refrigerate or freeze.

## **[ References ]**

[1] Masner P, Bowers W S, Kälén M, *et al.* *Gen. Comp. Endocr.* 1979, 37(2):156-66.

- [2] Ribeiro V L S, Santos J C D, Martins J R, *et al. Vet. Parasitol.*, 2011, 179(1-3):195-8.
- [3] Hsia M T, Grossman S, Schrankel K R. *Chem.Biol. Int.*, 1981, 37(3):265-77.
- [4] Bitsch C, Bitsch J. *J.Insect Physiol.*, 1984, 30(6):463- 70.
- [5] Cristiane F. Bosil, Daniela W. Rosal, Raphael Grougnet, *et al. Rev. Bras. Farmacogn.*, 2013, 2,19.

## **[ Contact ]**

**Address:**

S5-3 Building, No. 111, Dongfeng Rd.,  
Wuhan Economic and Technological Development Zone,  
Wuhan, Hubei 430056,  
China

**Email:** [info@chemfaces.com](mailto:info@chemfaces.com)

**Tel:** +86-27-84237783

**Fax:** +86-27-84254680

**Web:** [www.chemfaces.com](http://www.chemfaces.com)

**Tech Support:** [service@chemfaces.com](mailto:service@chemfaces.com)