

## Pinostrobin chalcone Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** Pinostrobin chalcone

**Catalog No.:** CFN99878

**Cas No.:** 17388-39-5

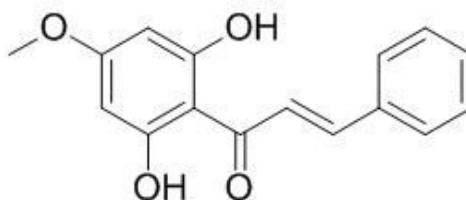
**Purity:** > 95%

**M.F:** C<sub>16</sub>H<sub>14</sub>O<sub>4</sub>

**M.W:** 270.3

**Physical Description:** Yellow powder

**Synonyms:** 2,6-Dihydroxyl-4-methoxyl-chalcone; 2',6'-Dihydroxy-4'-methoxy-trans-chalcone.



### [ Intended Use ]

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

### [ Source ]

The heartwoods of *Lindera umbellata*.

### [ Biological Activity or Inhibitors ]

Pinostrobin chalcone displays very remarkable cytotoxic activity against the human cancer cells, such as KB, MCF7 and Caski cells ( $IC_{50}$  values of 6.2, 7.3 and 7.7  $\mu\text{g/mL}$ , respectively).<sup>[1]</sup>

Pinostrobin chalcone is a potent inhibitor of triglyceride accumulation, it can inhibit adipogenesis in 3T3-L1 cells, it may have anti-obesity effects through the inhibition of adipogenesis.<sup>[2]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]<sup>[3]</sup>**

Mobile phase: 0.1% Acetic acid in water- Methanol, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 342 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Malek S N, Phang C W, Ibrahim H, *et al. Molecules*, 2011, 16(1):583-9.

[2] Oikawa N, Nobushi Y, Wada T, *et al. J. Nat. Med.*, 2016, 70(3):502-9.

[3] Shen Y, Liu N, Xu M, *et al. Chinese Journal of Pharmaceutical Analysis*, 2013, 33(5): 804-7.

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