

Auraptenol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Auraptenol

Catalog No.: CFN99340

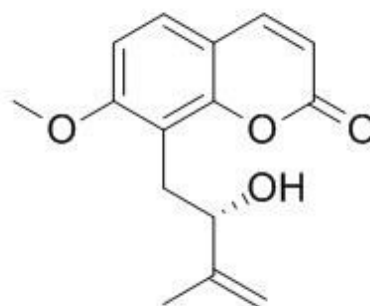
Cas No.: 1221-43-8

Purity: > 95%

M.F: C₁₅H₁₆O₄

M.W: 260.3

Physical Description: Powder



Synonyms:(+)-8-(2-Hydroxy-3-methyl-3-butenyl)-7-methoxy-2H-1-benzopyran-2-one;

8-(2-Hydroxy-3-methyl-3-butenyl)-7-methoxycoumarin.

[Intended Use]

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

[Source]

The fruits of *Citrus aurantium*.

[Biological Activity or Inhibitors]

Auraptanol possesses robust antidepressant-like efficacy in mice.^[1]

Auraptanol attenuates vincristine-induced mechanical hyperalgesia through serotonin 5-HT_{1A} receptors, it has potential to be a novel analgesic for the management of neuropathic pain.^[2]

Auraptanol shows high inhibitory activities against larval settlement of *Balanus albicostatus* with EC₅₀ values of 3.38 µg/mL.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-H₂O, gradient elution ;

Flow rate: 1.0 mL/min;

Column temperature: Room Temperature;

The wave length of determination: 310 nm.

[Storage]

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

[References]

[1] Gu X, Zhou Y, Wu X, *et al. Sci. Rep.*, 2014 Mar 24;4:4433.

[2] Wang Y, Cao S E, Tian J, *et al. Sci Rep.*, 2013 Nov 29;3:3377.

[3] Wang Z C, Feng D Q, Ke C H. *Int. J. Mol. Sci.*, 2013 Jan 9;14(1):1197-206.

[4] Feger W, Brandauer H, Paulina Gabris A, *et al. J. Agric. Food Chem.*, 2006, 54, 2242-52.

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