

Coniferaldehyde Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Coniferaldehyde

Catalog No.: CFN98037

Cas No.: 20649-42-7

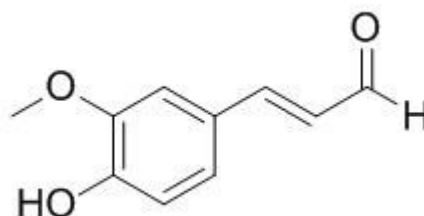
Purity: > 95%

M.F: C₁₀H₁₀O₃

M.W: 178.2

Physical Description: Powder

Synonyms: 3-(4-Hydroxy-3-methoxyphenyl)prop-2-enal.



[Intended Use]

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

[Source]

The herbs of *Artemisia annua* L.

[Biological Activity or Inhibitors]

Coniferaldehyde exerts anti-inflammatory properties by inducing heme oxygenase-1

(HO-1), it inhibits LPS-induced apoptosis through the PKC α/β II/Nrf-2/HO-1 dependent pathway in RAW264.7 macrophage cells.^[1]

Coniferaldehyde can significantly inhibit the growth of viability of strains of *Oenococcus oeni*.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: 2% Formic acid in water- (Methanol -H₂O-Formic acid=70:28:2),gradient elution ;

Flow rate:1.0 ml/min;

Column temperature: 40°C;

The wave length of determination:320 nm.

[Storage]

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

[References]

[1] Kim K M, Heo DR, Kim Y A, *et al. Environ. Toxicol. Pharmacol.*,2016 Dec;48:85-93.

[2] Figueiredo A R, Campos F, De F V, *et al. Food Microbiol.*,2008, 25(1):105-12.

[3] Canas S, Belchior A P, Spranger M I, *et al. J. Sep. Sci.*, 2015, 26(26):496-502.

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