

Sinapaldehyde Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Sinapaldehyde

Catalog No.: CFN98038

Cas No.: 20649-43-8

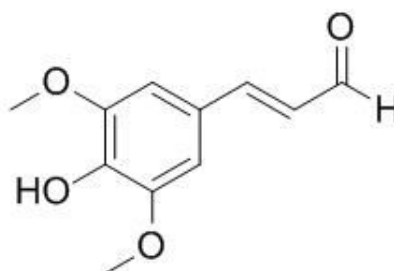
Purity: > 95%

M.F: C₁₁H₁₂O₄

M.W: 208.2

Physical Description: Powder

Synonyms: (2E)-3-(4-Hydroxy-3,5-dimethoxyphenyl)acrylaldehyde.



[Intended Use]

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

[Source]

The heart wood of *Populus tomentosa*.

[Biological Activity or Inhibitors]

The reaction of sinapaldehyde and methylpyranoanthocyanin can obtain a new bluish

pigment.^[1]

Sinapaldehyde inhibits prostaglandin synthetase in a dose-dependent way, it dose-dependently inhibits ethyl phenylpropiolate-induced edema of the rat ear, and can inhibit electrically induced contractions of the guinea pig ileum in a dose-dependent way.^[2]

[Solvent]

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

[HPLC Method]^[3]

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

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 246 nm.

[Storage]

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

[References]

[1] Oliveira J, Mateus N, Freitas V D. *Tetrahedron Lett.*, 2011, 52(16):1996-2000.

[2] Farah M H, Samuelsson G. *Planta Med.*, 1992, 58(1):14-8.

[3] Canas S, Belchior A P, Spranger M I, *et al. Anal. Methods-UK*, 2010, 3(1):186-91.

[Contact]

Address:

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

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com