

p-Hydroxy-cinnamic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: p-Hydroxy-cinnamic acid

Catalog No.: CFN98179

Cas No.: 7400-08-0

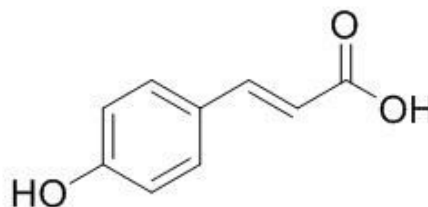
Purity: >=98%

M.F: C₉H₈O₃

M.W: 164.16

Physical Description: Powder

Synonyms:(2E)-3-(4-hydroxyphenyl)prop-2-enoic-acid;4-hydroxycinnamic-acid;
3-(4-Hydroxyphenyl)acrylic acid; p-Coumaric acid; 3-(4-Hydroxyphenyl)-2-propenoic acid;
2-(4-hydroxyphenyl)prop-2-enoic acid; trans-p-Hydroxycinnamic acid;
trans-4-Hydroxycinnamic acid; trans-p-Coumaric acid.



[Intended Use]

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

[Source]

The barks of *Cinnamomum cassia* Presl.

[Biological Activity or Inhibitors]

p-Hydroxycinnamic acid and β -cryptoxanthin have anti-osteoporotic properties in vivo, they can antagonize NF- κ B activation in MC3T3 preosteoblastic cells, suggests that NF- κ B may be a common molecular target by which several bone active agents, including carotenoids, promote osteoblastic bone formation. [1]

[Solvent]

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

[HPLC Method]^[2]

Mobile phase: Acetonitrile- 0.3%Acetic acid H₂O=20:80;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 310 nm.

[Storage]

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

[References]

[1] Yamaguchi M, Weitzmann M N. *Mol.Med. Rep.*, 2009, 2(4):641-4.

[2] Ma M, Xie Y, Hu T. *East China Pulp & Paper Industry*, 2011, 42(3):22-5.

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