

Syringic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Syringic acid

Catalog No.: CFN98884

Cas No.: 530-57-4

Purity: >=99%

M.F: C₉H₁₀O₅

M.W: 198.17

Physical Description: Powder

Synonyms: 4-Hydroxy-3,5-dimethoxy-benzoicaci;4-hydroxy-3,5-dimethoxy-;

Benzoic acid.

[Intended Use]

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

[Source]

The herbs of Michelia spaerantha C.Y.Wu.

[Biological Activity or Inhibitors]

Syringic acid and vanillic acid inhibit the activation of cultured hepatic stellate cells, which

play a central role in liver fibrogenesis, and maintained hepatocyte viability, suggests

that the administration of syringic acid and vanillic acid could suppress hepatic fibrosis in

chronic liver injury.[1]

Syringic acid has in vitro antimicrobial activity and fungitoxicity. [2]

Syringic acid can ameliorate L-arginine methyl ester-induced hypertension by reducing

oxidative stress; it reduces oxidative stress markers and has antioxidant effects, it also

augments antioxidant capacity in I-arginine-induced acute toxicity of pancreas in rats. [3,4]

Syringic acid treatment in cerebral ischemia reduced oxidative stress and neuronal

degeneration, we think that syringic acid treatment may be an alternative treatment

method.[5]

Syringic acid has antihyperglycemic effect on attenuating the key enzymes of

carbohydrate metabolism in experimental diabetic rats, it can reduce the pancreatic

damage induced by alloxan and stimulated β-cell regeneration in diabetic rats, suggests

its therapeutic potential for the management of diabetes. [6]

Dietary syringic acid possesses anti-obesity, anti-inflammatory and anti-steatotic effects

via the regulation of lipid metabolic and inflammatory genes, it is likely to be a new natural

therapeutic agent for obesity or non-alcoholic liver disease.^[7]

[Solvent]

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

[HPLC Method][8]

Mobile phase: Methanol- 1% Acetic acid H2O =20:80;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 254 nm.

[Storage]

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

[References]

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[4] Cikman O, Soylemez O, Ozkan O F, et al. Int. Surg., 2015, 100(5):891-6.

[5] Güven M, Aras A B, Topaloğlu N, et al. Turk. J. Med. Sci., 2015, 45(1):233-40.

[6] Srinivasan S, Muthukumaran J, Muruganathan U, et al. Biomed. Prevent. Nutr., 2014, 4(4):595-602.

[7] Ham J R, Lee H I, Choi R Y, et al. Food Funct., 2016, 7(2):689-97.

[8] Maity N, Pandit S, Nema N K, et al. Planta Med., 2012, 78 - Pl108(11).

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