

3,4,5-Trimethoxycinnamic acid Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 3,4,5-Trimethoxycinnamic acid

Catalog No.: CFN98182

Cas No.: 90-50-6

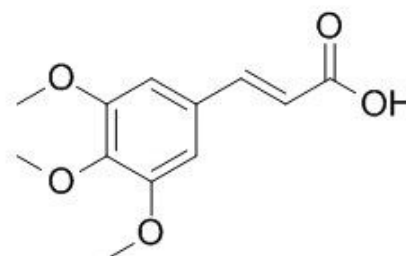
Purity: >-98%

M.F: C₁₂H₁₄O₅

M.W: 238.24

Physical Description: White cryst.

Synonyms: (2Z)-3-(3,4,5-Trimethoxyphenyl)prop-2-enoic acid.



[Intended Use]

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

[Source]

The heartwood of *Cassia garrettiana*.

[Biological Activity or Inhibitors]

3,4,5-Trimethoxycinnamic acid shows hypoxia inducible factor-2 (HIF-2) inhibitory activity with EC₅₀ value of 60.6 μ M.^[1]

3,4,5-Trimethoxycinnamic acid derivatives have a potential antinarcotic effect through acting as a 5-HT(1A) receptor agonist in mice.^[2]

3,4,5-Trimethoxycinnamic acid would exhibit sedative effects by suppressing norepinephrine content in locus coeruleus.^[3]

3,4,5-Trimethoxycinnamic acid can enhance pentobarbital-induced sleeping behaviors via GABAergic systems in mice.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile-0.1%Phosphoric acid H₂O, gradient elution;

Flow rate:1.0 ml/min;

Column temperature: 30°C;

The wave length of determination:280 nm.

[Storage]

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

[References]

[1] Heidi Rose BOKESCH, Roberta Scott GARDELLA, Daniel Christopher RABE, *et al.* *Chem.Pharm. Bull.*,2011, 59(9):1178-9.

[2] Jung J C, Moon S, Min D, *et al.* *Chem. Biol. Drug Des.*,2013 Mar;81(3):389-98.

[3] Kawashima K, Miyako D, Ishino Y, *et al.* *Biol. Pharm. Bull.*,2004 Aug;27(8):1317-9.

[4] Lee C I, Han J Y, Jin T H, *et al.* *Arch. Pharm. Res.*,2013, 36(10):1244-51.

[5] Song M H, Wu P, Zhang X L, *et al.* *Chinese Traditional Patent Medicine*, 2016,38(7):

1565-9.

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