

Methyl syringate Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Methyl syringate

Catalog No.: CFN97450

Cas No.: 17388-39-5

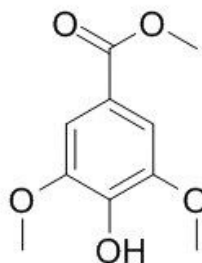
Purity: > 98%

M.F: C₁₀H₁₂O₅

M.W: 212.2

Physical Description: Powder

Synonyms: Methyl 3,5-dimethoxy-4-hydroxybenzoate.



[Intended Use]

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

[Source]

The herbs of *Illicium micranthum*.

[Biological Activity or Inhibitors]

Methyl syringate is an aflatoxin production inhibitor, it can inhibit aflatoxin production of

Aspergillus parasiticus and *Aspergillus flavus* with IC₅₀ values of 0.9 and 0.8 mM, respectively, without significantly inhibiting fungal growth.^[1]

Methyl syringate is an activator of the chemosensory ion channel TRPA1.^[2]

Methyl syringate is a specific and selective agonist of the human transient receptor potential channel ankyrin 1 (TRPA1) and suppresses food intake and gastric emptying in imprinting control region mice; it inhibits the hypoxic induction of COX-2 expression and cell invasion through TRPA1 activation, suggests that methyl syringate could be effective to suppress hypoxia-induced inflammation. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-H₂O, gradient elution ;

Flow rate: 0.3 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 276 nm.

[Storage]

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

[References]

[1] Jermnak U, Yoshinari T, Sugiyama Y, *et al. Int. J. Food Microbiol.*, 2012, 153(3):339-44.

[2] Son H J, Kim M J, Park J H, *et al. Arch. Pharm. Res.*, 2012, 35(12):2211-8.

[3] Park J, Shim M K, Jin M, *et al. Phytomedicine.*, 2016, 15;23(3):324-9.

[4] Chen B, Jin X L, Wang H J, *et al. Chinses Journal of Health Laboratory Technology*, 2015, 25(11):1740-2.

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