

Methyl orsellinate Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Methyl orsellinate

Catalog No.: CFN98406

Cas No.: 3187-58-4

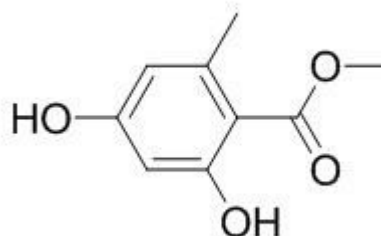
Purity: > 95%

M.F: C₉H₁₀O₄

M.W: 182.2

Physical Description: Powder

Synonyms: Methyl 2,4-dihydroxy-6-methylbenzoate; 2,4-Dihydroxy-6-methylbenzoic acid methyl ester.



[Intended Use]

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

[Source]

The herbs of *Dianella ensifolia* (L.) DC.

[Biological Activity or Inhibitors]

Methyl orsellinate is a phytotoxic compound, it can cause significant inhibition of radicle growth of *Amaranthus hypochondriacus* and *Echinochloa crus-galli*, interact with bovine-brain calmodulin and inhibit the activation of the calmodulin-dependent enzyme cAMP phosphodiesterase.^[1]

Methyl orsellinate exhibits antifungal activity.^[2]

Methyl orsellinate can inhibit PTP1B activity with 50% inhibitory concentration values of 277 +/- 8.6 microM, the selective inhibition of PTP1B has been widely recognized as a potential drug target for the treatment of type 2 diabetes and obesity, methyl orsellinate may can treat the type 2 diabetes and obesity.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Methanol -H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 266 nm.

[Storage]

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

[References]

[1] Mata R, Bye R, Linares E, *et al. Phytochemistry*, 2003, 64(1):285-91.

[2] Woodward S. *J. Gen. Microbiol.*, 1993, 139(1):153-9.

[3] Seo C, Choi Y H, Ahn J S, *et al. J. Enzyme Inhib. Med. Chem.*, 2009 Oct; 24(5):1133-7.

[4] Kim M S, Lee K T, Jeon S M, *et al.* *Korean Journal of Mycology*,2013,41(4):236-42.

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