

Morellic acid Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Morellic acid

Catalog No.: CFN92093

Cas No.: 5304-71-2

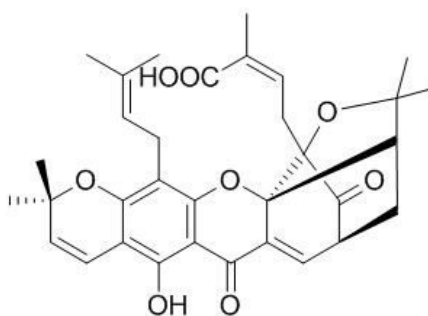
Purity: > 95%

M.F: C₃₃H₃₆O₈

M.W: 560.7

Physical Description: Powder

Synonyms: 1'-Benzyl-2-(4-methoxyphenyl)-9-methylspiro[1,10b-dihydropyrazolo[1,5-c][1,3]benzoxazine-5,4'-piperidine].



[Intended Use]

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

[Source]

The herbs of *Garcinia Morella*.

[Biological Activity or Inhibitors]

Natural morellic acid shows strong potency (MIC=12.5uM) against global epidemic MRSA USA300, however, its potent toxicity diminishes MRSA therapeutic potential.^[1]

Morellic acid shows comparable antiangiogenic activities with less toxicities.^[2]

Morellic acid shows cytotoxic towards HT-29 cells (ED₅₀= 0.36 muM).^[3]

Morellic acid exhibits anti-HIV-1 activity in the reverse transcriptase (RT) assay.^[4]

Morellic acid shows moderately antibacterial activity against methicillin-resistant Staphylococcus aureus with a MIC value of 25 microg/ml.^[5]

[Solvent]

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

[HPLC Method]^[6]

Mobile phase: 0.05% Phosphoric acid in water- Methanol=6:94;

Flow rate:1.0 ml/min;

Column temperature: 35°C;

The wave length of determination:360 nm.

[Storage]

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

[References]

[1] Chaiyakunvat P, Anantachoke N, Reutrakul V, et al. *Bioorg. Med. Chem. Lett.*,2016 Jul 1;26(13):2980-3.

[2] Yang J, He S, Li S, et al. *Molecules*, 2013 Dec 11;18(12):15305-13.

[3] Ren Y, Lantvit DD, Carcache de Blanco EJ, et al. *Tetrahedron*,2010 Jul 17;66(29):5311-20.

[4] Reutrakul V, Anantachoke N, Pohmakotr M, et al. *Planta Med.*,2007 Jan;73(1):33-40.

[5] Sukpondma Y, Rukachaisirikul V, Phongpaichit S. *Chem. Pharm. Bull. (Tokyo)*, 2005

Jul;53(7):850-2.

[6] Hao K, Liu X Q, Wang G J, *et al.* *Chinese Journal of Natural Medicines.*,2005 ,3 (5):
312-5.

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