

Moracin D Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Moracin D

Catalog No.: CFN97179

Cas No.: 69120-07-6

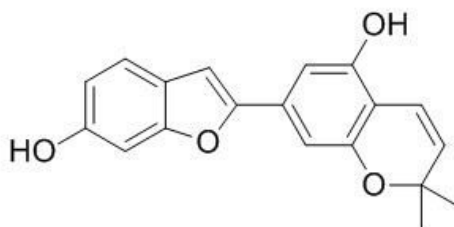
Purity: > 95%

M.F: C₁₉H₁₆O₄

M.W: 308.3

Physical Description: Powder

Synonyms:



[Intended Use]

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

[Source]

The root bark of *Morus alba* L.

[Biological Activity or Inhibitors]

Moracin C and D, new phytoalexins from diseased mulberry, are antifungal compounds.^[1]

Moracin treatment can inhibit the double 12-O-tetradecanoylphorbol 13-acetate (TPA) treatment-induced morphological changes reflecting inflammatory response, including leucocyte infiltration, hyperplasia and cell proliferation; moracin treatment furthermore can significantly suppress the elevation in 4-HNE level and elevate expression of c-fos, c-myc and cyclooxygenase-2 (COX-2) in normal epidermis induced by double application of TPA; the moracin may be protective influence in tumor promotion, utilization of Moracin may open a new avenue in the treatment of tumorigenesis.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile- 0.05% Phosphoric acid H₂O, gradient elution;

Flow rate: 0.8 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 310 nm.

[Storage]

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

[References]

[1] Takasugi M, Nagao S, Ueno S, *et al. Chem. Lett.*, 1978(11):1239-40.

[2] Khyade V B, Lonkar U D. *Annals of Plant Sciences*, 2013,2(10):412-9.

[3] Won C S, Jeong J Y, Jin L Y, *et al. Prev. Nutr. Food Sci.*, 2013, 18(4):256-62.

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