

Moracin M Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Moracin M

Catalog No.: CFN92327

Cas No.: 56317-21-6

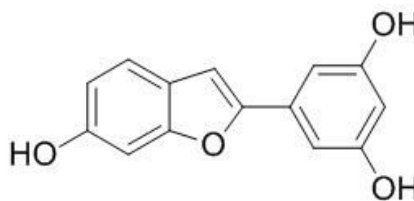
Purity: > 95%

M.F: C₁₄H₁₀O₄

M.W: 242.2

Physical Description: Powder

Synonyms: 5-(6-Hydroxy-1-benzofuran-2-yl)benzene-1,3-diol.



[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 M, extracted from Chinese herbal drug 'Sang-Bai-Pi' (*Morus alba* L.), has the

inhibitory affinity towards phosphodiesterase-4 (PDE4), it inhibits PDE4D2, PDE4B2, PDE5A1, and PDE9A2 with the IC(50) values of 2.9, 4.5, >40, and >100 μ M, respectively.^[1]

Moracin M can inhibit interleukin (IL)-6 production from IL-1 β -treated lung epithelial cells (A549) with IC 50 is 8.102 μ M, it can inhibit airway inflammation in vitro and in vivo , and it has therapeutic potential for treating lung inflammatory disorders.^[2]

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. ^[3]

[Solvent]

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

[HPLC Method]^[4]

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] Chen S K, Zhao P, Shao Y X, *et al. Bioorg. Med. Chem. Lett.*, 2012, 22(9):3261-4.

[2] Lee J H, Ko H J, Woo E R, *et al. Eur. J.Pharmacol.*, 2016, 783:64-72.

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

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

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