

Moracin P Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Moracin P

Catalog No.: CFN92324

Cas No.: 102841-46-3

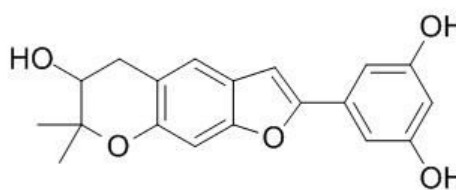
Purity: > 95%

M.F: C₁₉H₁₈O₅

M.W: 326.4

Physical Description: Powder

Synonyms: 5-[(6R)-6,7-Dihydro-6-hydroxy-7,7-dimethyl-5H-furo[3,2-g][1]benzopyran-2-yl]-1,3-benzenediol.



[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]

Moracins O and P exhibit potent in vitro inhibitory activity against hypoxia-inducible factor (HIF-1), which is a key mediator during adaptation of cancer cells to tumour hypoxia.^[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: 0.05% Trifluoroacetic acid- Acetonitrile, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Xia Y, Jin Y, Kaur N, *et al. Eur. J. Med.Chem.*, 2011, 46(6):2386-96.

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

[3] Kaur N, Xia Y, Jin Y, *et al. ChemInform*, 2009, 40(34):1879-81.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com**Tel:** +86-27-84237783**Fax:** +86-27-84254680**Web:** www.chemfaces.com**Tech Support:** service@chemfaces.com