

Morusin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Morusin

Catalog No.: CFN97083

Cas No.: 62596-29-6

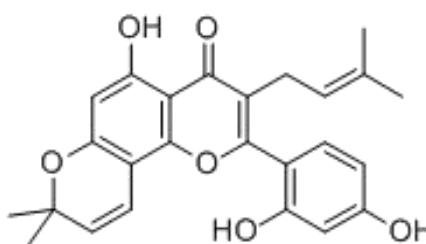
Purity: >98%

M.F: C₂₅H₂₄O₆

M.W: 420.46

Physical Description: Yellow powder

Synonyms: 2-(2,4-Dihydroxyphenyl)-3-(3-methyl-2-butenyl)-5-hydroxy-8,8-dimethyl-4H,8H-benzo[1,2-b:3,4-b']dipyrans-4-one; Mulberrochromene.



[Intended Use]

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

[Source]

The roots bark of *Morus alba* L.

[Biological Activity or Inhibitors]

Morusin, the main prenylflavonoid present in the *Morus nigra* root barks, exhibits a promising antinociceptive or analgesic profile by the intraperitoneal route; the mechanism by which the morusin exerts antinociceptive activity still remains undetermined, it involves the participation of the opioid system.^[1]

Morusin can significantly inhibit the growth and clonogenicity of human colorectal cancer HT-29 cells, the antitumor mechanism of morusin in HT-29 cells may be via activation of caspases and inhibition of NF- κ B.^[2]

Morusin has anticonvulsant activity, the protection against the convulsions and restoration of GABA level give a suggestion to its probable mechanism of action. ^[3]

Morusin has antibacterial activity against *Bacillus subtilis*, with the minimum inhibitory concentration(MIC) below 1.56 μ g /mL.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile- H₂O=58:42 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 270 nm.

[Storage]

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

[References]

[1]de Souza M M, Bittar M, Cechinelfilho V, *et al.* *Z. Naturforsch. C*, 2000, 55(3-4):256-60.

[2] Lee J C, Won S J, Chao C L, *et al.* *Biochem. Bioph. Res. Co.*, 2008, 372(1):236-42.

[3] Gupta G, Dua K, Kazmi I, *et al.* *Biomed. Aging Pathol.*, 2013, 4(1):29–32.

[4] Pang D R, Liu F, Shen W Z, *et al. Science of Sericulture*, 2013, 39(6):1150-4.

[5] Zong Y Y, Ip S P, Dong T X, *et al. China Journal of Chinese Materia Medica*, 2007, 32(11):1038-40.

[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