

Rubiadin 1-methyl ether Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Rubiadin 1-methyl ether

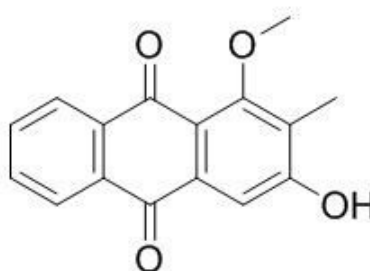
Catalog No.: CFN97227

Cas No.: 7460-43-7

Purity: > 95%

M.F: C₁₆H₁₂O₄

M.W: 268.27



Physical Description: Yellow powder

Synonyms: 3-Hydroxy-1-methoxy-2-methylantraquinone;9,10-Anthracenedione, 3-hydroxy-1-methoxy-2-methyl-

[Intended Use]

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

[Source]

The herbs of *Paederia scandens* (Lour.) Merr.

[Biological Activity or Inhibitors]

Rubiadin-1-methyl ether, isolated from the roots of *Morinda officinalis*, it can promote osteoblast proliferation and inhibit osteoclast TRAP activity and bone resorption, and the inhibitory effects on osteoclastic bone, antiosteoporotic activity of *M. officinalis* and its anthraquinones suggest therapeutic potential against osteoporosis.^[1]

Rubiadin-1-methyl ether probed as Type I photosensitizers.^[2]

Rubiadin 1-methyl ether decreases the number of parasites (schizonts) in a dose-dependent manner, and 100% of inhibition was obtained with 30 to 40 micrograms.^[3]

Rubiadin-1-methyl ether, 1,2-Dimethoxyanthraquinone and alizarin-2-methyl ether show the strongest enhancing activity for adipocyte differentiation, thus, these compounds could be beneficial in the treatment of diabetes.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile- H₂O=50:50 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 280 nm.

[Storage]

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

[References]

[1] Wu Y B, Zheng C J, Qin L P, *et al. Molecules*, 2008, 14(1):573-83.

[2] Montoya S C, Comini L R, Sarmiento M, *et al. J. Photoch. Photobio. B*, 2005, 78(1): 77-83.

[3] Koumaglo K, Gbeassor M, Nikabu O, *et al. Planta Med.*, 1993, 58(6):533-4.

[4] Liu Q, Kim S B, Ahn J H, *et al. Nat. Prod. Res.*, 2012, 26(18):1750-4.

[5] Kyoung K H, Byungkil C, Mi C J, *et al. Planta Med.*, 2006, 72(11):1069-1069.

[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