

Rubiadin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Rubiadin

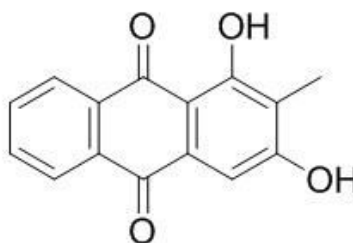
Catalog No.: CFN99270

Cas No.: 117-02-2

Purity: >98%

M.F: C₁₅H₁₀O₄

M.W: 254.24



Physical Description: Yellow powder

Synonyms: Rubiadine; 1,3-Dihydroxy-2-methyl-9,10-anthracenedione; 1,3-Dihydroxy-2-methyl-9,10-anthraquinone.

[Intended Use]

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

[Source]

The roots of *Rubia cordifolia*.

[Biological Activity or Inhibitors]

Rubiadin, a major constituent isolated from *Rubia cordifolia* Linn., has hepatoprotective effects against carbon tetrachloride (CCl₄)-induced hepatic damage in rats.^[1]

Rubiadin possesses potent antioxidant property, it can prevent lipid peroxidation induced by FeSO₄ and t-butylhydroperoxide (t-BHP) in a dose dependent manner.^[2]

Rubiadin can decrease bone loss through the inhibition of osteoclast formation, differentiation and bone resorption.^[3]

Rubiadin exhibits strong antitumor promoting activity at the concentration of 2.0 µg/ml when assayed using the inhibition test of Epstein Barr Virus (EBV) activation on Raji cells.^[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] Rao G M M, Rao C V, Pushpangadan P, et al. *J.Ethnopharmacol.*, 2006, 103(103): 484-90.

[2] Tripathi Y B, Sharma M, Manickam M. *Indian J.Biochem. Biol.*, 1997, 34(34):302-6.

[3] Bao L L, Qin L P, Bian J, et al. *Pharmaceutical Journal of Chinese Peoples Liberation Army*, 2009, 25(6):505-9.

[4] Jasril, Lajis N H, Mooi L Y, *et al. Asia-Pacific Journal of Molecular Biology and Biotechnology*, 2003, 11(1):3-7.

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

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