

5-Hydroxy-4-methoxycanthin-6-one Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 5-Hydroxy-4-methoxycanthin-6-one

Catalog No.: CFN99846

Cas No.: 18110-86-6

Purity: > 95%

M.F: C₁₅H₁₀N₂O₃

M.W: 266.3

Physical Description: Yellow powder

Synonyms: 5-Hydroxy-4-methoxy-6H-indolo[3,2,1-de][1,5]naphthyridin-6-one; 4-Methoxy-5-hydroxy-canthin-6-on; Nigakinone.



[Intended Use]

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

[Source]

The barks of *Picrasma quassioides* (D.Don) Benn.

[Biological Activity or Inhibitors]

4-Methoxy-5- hydroxycanthin-6-one has anti-inflammatory effect, it can significantly inhibit the production of NO and the release of TNF- α induced by LPS in macrophage RAW 264.7; after oral administration, 4-methoxy-5- hydroxycanthin-6-one (3, 9, and 27 mg/kg) can reduce the development of carrageenan-induced paw edema and complete Freund's adjuvant (CFA)-induced chronic arthritis in rats.^[1]

4-Methoxy-5-hydroxycanthin-6-one has protective effect on dextran sulfate sodium -induced rat colitis.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile- 0.1% Acetic acid in water=30:70;

Flow rate:1.0 ml/min;

Column temperature: 30℃;

The wave length of determination:254 nm.

[Storage]

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

[References]

[1] Fan H, Qi D, Yang M, *et al. Phytomedicine.*,2013 Feb 15;20(3-4):319-23.

[2] Liu J M, Zhai D, Liu K, *et al. Planta Med.*,2009, 75(2):142-5.

[3] Zhao W, Yu J, Zhang X, *et al. Chinese Journal of Pharmaceutical Analysis*, 2012, 32(7):1239-42.

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