

Dictamnine Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Dictamnine

Catalog No.: CFN99783

Cas No.: 484-29-7

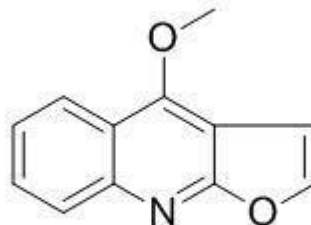
Purity: >=98%

M.F: C₁₂H₉NO₂

M.W: 199.21

Physical Description: Powder

Synonyms: 4-Methoxyfuro[2,3-b]quinoline.



[Intended Use]

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

[Source]

The root barks of *Dictamnus dasycarpus Turcz.*

[Biological Activity or Inhibitors]

Dictamnine and gamma-fagarine have mutagenic activities, they have specific activities

(His+/microgram) of about 50-70 revertant colonies in strain TA100, while in strain TA98 there were about 30-50 revertant colonies.^[1]

Dictamnine has good antifungal activity alone and in combination with fluconazole against *Candida albicans*.^[2]

Dictamnine at higher concentrations ($\geq 100 \mu\text{M}$) has potential hepatotoxicity, the cell membrane damage and mitochondrial membrane damage may be involved in the dictamnine-induced hepatotoxicity mechanism.^[3]

Dictamnine has photoinduced genotoxicity.^[4]

Dictamnine shows anti-inflammatory effect.^[5]

Dictamnine shows anticholinesterase activity.^[6]

[Solvent]

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

[HPLC Method]^[7]

Mobile phase: 0.1% Phosphoric acid in water- Acetonitrile, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C ;

The wave length of determination: 238 nm.

[Storage]

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

[References]

[1] Mizuta M, Kanamori H. *Mutat. Res.*, 1985, 144(4):221-5.

[2] Liang X, Guo N, Wang L, *et al. Chinese Agricultural Science Bulletin*, 2009, 25(16): 21-4.

[3] Guo X P, Li A F, Zhang B X, *et al. Chinese Journal of Pharmacology & Toxicology*, 2013,

27(1):95-100.

[4] Fujita H, Kakishima H. *Chem. Biol. Interact.*, 1989;72(1-2):105-11.

[5] Shi D F, Zheng M Z, Zhao L C, *et al.* *Chinese Journal of Experimental Traditional Medical Formulae*, 2012, 18(14):128-31.

[6] Cabral R S, Sartori M C, Cordeiro I, *et al.* *Rev. Bras. Farmacogn.*, 2012, 22(2):374-80.

[7] Zhu L X, Wang X, Zhang H Y, *et al.* *Chinese Archives of Traditional Chinese Medicine*, 2013, 12:2706-8.

[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