[ Product Information ]

Name: Dictamnine
Catalog No.: CFN99783
Cas No.: 484-29-7
Purity: >=98%
M.F: C_{12}H_9NO_2
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 (≥100uM) 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 ]


27(1):95-100.


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