

Guaiacin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Guaiacin

Catalog No.: CFN97039

Cas No.: 36531-08-5

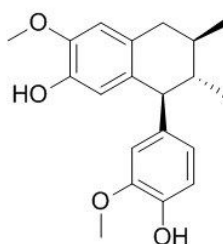
Purity: >=98%

M.F: C₂₀H₂₄O₄

M.W: 328.4

Physical Description: Powder

Synonyms: (6R,7S,8S)-5,6,7,8-Tetrahydro-8-(4-hydroxy-3-methoxyphenyl)-3-methoxy-6,7-dimethyl-2-naphthalenol.



[Intended Use]

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

[Source]

The Leaves of *Guaiacum officinale*.

[Biological Activity or Inhibitors]

(+)-Guaiacin has significant neuroprotective activities against glutamate-induced neurotoxicity in primary cultures of rat cortical cells.^[1]

(+)-Guaiacin shows potent in vitro activities against the release of beta-glucuronidase in rat polymorphonuclear leukocytes (PMNs) induced by platelet-activating factor (PAF), with 42.5-75.6% inhibition at 10^{-5} M.^[2]

Guaiacin can inhibit cyclooxygenase (COX)-1 and COX-2, indicates that it has anti-inflammatory activity. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: 70% Methanol in water- 0.1% Trifluoroacetic acid, gradient elution ;

Flow rate: 5.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Ma C J, Sung S H, Kim Y C. *Planta Med.*, 2004, 70(1):79-80.

[2] Cheng W, Zhu C, Xu W, *et al. J. Nat. Prod.*, 2009, 72(12):2145-52.

[3] Silva D H, Zhang Y, Santos LA, *et al. J. Agr. Food Chem.*, 2007, 55(7):2569-74.

[4] Cuong T D, Hung T M, Han H Y, *et al. Nat. Prod. Commun.*, 2014, 9(4):499-502.

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