

Vanillic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Vanillic acid

Catalog No.: CFN99331

Cas No.: 121-34-6

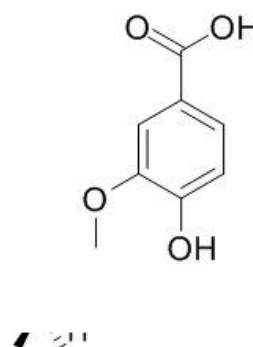
Purity: >= 98%

M.F: C₈H₈O₄

M.W: 168.2

Physical Description: Powder

Synonyms: 4-Hydroxy-3-methoxybenzoic acid.



[Intended Use]

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

[Source]

The herbs of *Cymbopogon javanensis*.

[Biological Activity or Inhibitors]

Vanillic acid is a potent free radical scavenger, thus, it exerts protective effects in isoproterenol induced cardiotoxic rats due to its free radical scavenging, antioxidant and anti-inflammatory properties. ^[1]

Vanillic acid has inhibitory effect on methylglyoxal-mediated glycation in apoptotic Neuro-2A cells.^[2]

Vanillic acid has hepatoprotective effect on CCl₄-induced liver injury.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-H₂O=15:85 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature ;

The wave length of determination: 260 nm.

[Storage]

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

[References]

[1] Prince P S M, Rajakumar S, Dhanasekar K. *Eur. J. Pharmacol.*, 2011, 668(1-2):233-40.

[2] Huang S M, Hsu C L, Chuang H C, *et al. Neurotoxicology*, 2008, 29(6):1016-22.

[3] Itoh A, Isoda K, Kondoh M, *et al. Biol. Pharm. Bull.*, 2010, 33(6):983-7.

[4] Li K, Jia Y, Bi K, *et al. Yakugaku Zasshi* , 2004, 124(7):465-8.

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