Natural Products

ChemFaces

Isovanillin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Isovanillin

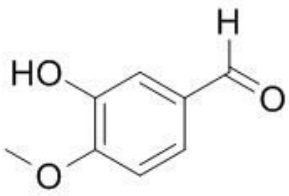
Catalog No.: CFN90358

Cas No.: 621-59-0

Purity: >= 98%

M.F: $C_8H_8O_3$

M.W: 152.15



Physical Description: Powder

Synonyms:3-Hydroxy-4-methoxybenzaldehyde;3-Hydroxyanisaldehyde;

5-Formylguaiacol; 3-Hydroxy-p-anisaldehyde.

[Intended Use]

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

[Source]

The barks of *Pinus yunnanensis*.

[Biological Activity or Inhibitors]

Isovanillin has been proved as an inhibitor of the metabolism of heterocyclic substrates, such as phthalazine, by guinea pig liver aldehyde oxidase.[1]

Isovanillin and iso-acetovanillon are two phenolic components isolated from a number of plants including Pycnocycla spinosa. P. spinosa extract has antispasmodic and antidiarrheal activities; the antidiarrheal effect of P. spinosa extract is at least partially due to presence of two active compounds isovanillin and iso-acetovanillon; they are relaxant of ileum contractions induced by 5-HT and EFS and they have contribution to the relaxant effect of P. spinosa extract but other components are responsible for the inhibition of acetylcholine by the extract.[2]

[Solvent]

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

[HPLC Method][3]

Mobile phase: Acetonitrile -0.02% Aqueous phosphoric acid, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 230 nm.

[Storage]

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

[References]

[1] Brígido C, Da F I, Parreira R, *et al. Acta Biochim. Pol., 2004, 51(4):943-51.*

[2] Sadraei H, Ghanadian M, Asghari G, *et al. Res. Pharm. Sci., 2014, 9(2):187-92.*

[3] Tong L, Tan X J, Lin J R, *et al. Chinese Journal of Pharmaceutical Analysis, 2009, 29(6); 961-3.*

[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