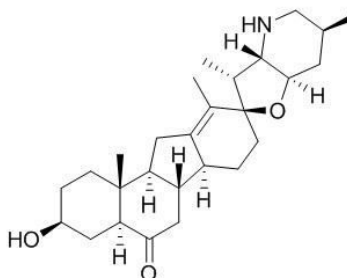


Peimisine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Peimisine**Catalog No.:** CFN98144**Cas No.:** 19773-24-1**Purity:** >=98%**M.F:** C₂₇H₄₁NO₃**M.W:** 427.62**Physical Description:** Powder**Synonyms:** Veratraman-6(5H)-one, 17,23-epoxy-3-hydroxy-, (3beta)-.

[Intended Use]

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

[Source]

The bulbs of *Fritillaria cirrhosa*.

[Biological Activity or Inhibitors]

Peimisine can affect M-receptor, excit β -receptor, restrain the release of internal calcium,

and promote to releasing nitrogen monoxidum in order to relax tracheal smooth muscle and relieve asthma.^[1]

Peimisine can attenuate lung tissue injury(ALI), LDH and MDA amount in ALI mice in a dose dependent manner, it also lower the total protein,total white blood cells,lymphocyte and neutrophilic leukocyte in bronchoalveolar lavage fluid(BALF); suggests that peimisine can play a protective role against LPS-induced acute lung injury.^[2]

Peimisine has the protective effect on the experimental hepatic fibrosis formation, the possible mechanisms are associated with inhibiting fibrogenesis and fibrosis accumulation,and decreasing lipid peroxidation. ^[3]

Peimisine can inhibit angiotensin I converting enzyme activity in a dose-dependent manner, displaying 50 % inhibitory concentration values of 526.5 microM, thus, it may have antihypertensive action .^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: 0.03% Trifluoroacetic acid in water- Methanol,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 260 nm.

[Storage]

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

[References]

[1] Yi Z, Zhu W F, Liu H N, *et al. Chinese Traditional & Herbal Drugs*, 2009, 40(4):597-601.

[2] Cui Y R, Liu H Y, Qu F. *Lishizhen Medicine & Materia Medica Research*, 2014,

8(13-14):1842-7.

[3] Liu J, Xu X F, Guo C Y, *et al.* *Chinese Traditional & Herbal Drugs*, 2013, 44(11):1455-9.

[4] Oh H, Kang D G, Lee S, *et al.* *Planta Med.*, 2003, 69(6):564-5.

[5] Peng R, Ma P, Mo R, *et al.* *Acta Pharm. Sin. B*, 2013, 3(3):167-73.

[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