

## Peiminine Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Peiminine

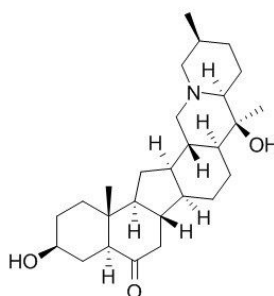
**Catalog No.:** CFN99997

**Cas No.:** 18059-10-4

**Purity:** >=98%

**M.F:** C<sub>27</sub>H<sub>43</sub>NO<sub>3</sub>

**M.W:** 429.64



**Physical Description:** Powder

**Synonyms:** Raddeanine; 3beta,20-Dihydroxy-5alpha-cevan-6-one; Fritillarine; Osnovanine.

### [ Intended Use ]

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

### [ Source ]

The bulbus of *Fritillaria thunbergii* Miq.

### [ Biological Activity or Inhibitors ]

Peiminine is the main biologically active component derived from *Fritillaria ussuriensis*,

peiminine demonstrates inhibitory effects on IgE-dependent anaphylaxis, it has regulatory potential for allergic inflammatory reactions mediated by HMC-1 cells. [1]

Peiminine can inhibit lung inflammation and pulmonary fibrosis in a rat model of bleomycin-induced lung injury, by reducing circulating IFN- $\gamma$  levels and inhibiting signal transduction pathways involving TGF- $\beta$ , CTGF, ERK1/2, NF- $\kappa$ B and FasL.[2]

Peiminine can repress colorectal carcinoma cell proliferation and cell growth by inducing autophagic cell death.[3]

## **[ Solvent ]**

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

## **[ HPLC Method ]**<sup>[4]</sup>

Mobile phase: Acetonitrile- 100 m M Ammonium acetate( pH 5.0 )=49:51;

Flow rate: 1.2 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 375 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Jung H S. *Immunopharm. Immunot.*, 2015, 37(4):351-8.

[2] Hai G, Ji F, Liu B, *et al.* *Mol. Med. Rep.*, 2013, 7(4):1103-10.

[3] Lyu Q, Tou F, Su H, *et al.* *Biochem. Bioph. Res. Co.*, 2015, 462(1):38-45.

[4] Wang Y, Zhang Q, Chen X, *et al.* *Chinese Traditional & Herbal Drugs*, 2001, 32(1):24-5.

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