

Anemoside B4 Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Anemoside B4

Catalog No.: CFN99786

Cas No.: 129741-57-7

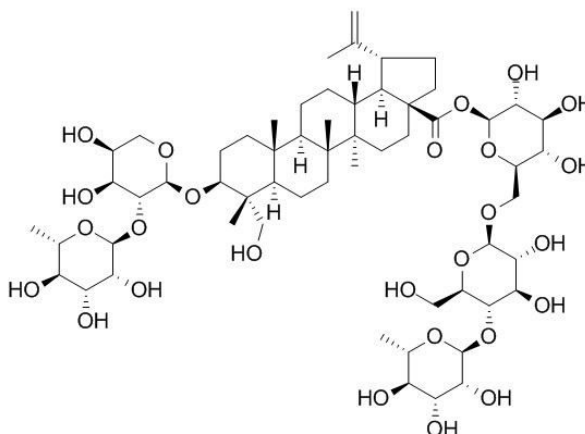
Purity: > 98%

M.F: C₅₉H₉₆O₂₆

M.W: 1221.38

Physical Description: Powder

Synonyms: Pulchinenoside B4; Chinensioside A; Pulchinenoside C.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Ingredient in supplements, beverages;
7. Others.

[Source]

The herb of *Pulsatilla chinensis* (Bge.) Regel.

[Biological Activity or Inhibitors]

Anemoside B4(AB4) and tetrandrine(Tet) have some reversal effect on resistant to L-OHP in Lo Vo/L-OHP cells, the molecular mechanism of the resistance reverse effect was related to down-regulation of P-gp for AB4 and down-regulation of α DHHC9 for Tet.^[1]

Anemoside B4, anemonin, berberine, jatrorrhizine, palmatine, aesculin, and esculetin are active ingredients of Pulsatillae Decoction, can inhibit the production of IL-6, secretion of IL-8, downregulate E-selectin expression, and decrease the content of TXB₂, they reduce inflammatory response, thus relieving intestinal dysfunction via multiple pathways.^[2]

Anemoside B4 may potentially have a capacity to regulate immune responses in vivo via changes in production of these select cytokines by infected endothelial cells.^[3]

[Solvent]

Pyridine, DMSO, Ethanol, Methanol.

[HPLC Method]^[4]

HPLC-CAD:

Mobile phase: Methanol -H₂O, gradient elution ;

Flow rate: 0.8 ml/min;

Column temperature: 30 °C.

[Storage]

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

[References]

[1] Li M, Fang M, Oncology D O. *China Oncology*, 2015(1):38-44.

[2] Hu Y, Chen X, Duan H, *et al. Immunopharm. Immunot.*, 2009, 31(4):550-5.

[3] Hu Y, He K, Wang X. *J. Immunotoxicol.*, 2016, 13(2):141-7.

[4] Yeom H S, Suh J H, Youm J R, *et al. Bulletin- Korean Chemical Society*, 2010, 31(5): 1159-64.

[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