

Platycodigenin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Platycodigenin

Catalog No.: CFN92207

Cas No.: 22327-82-8

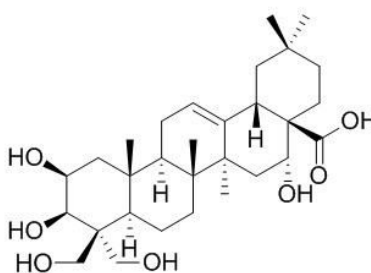
Purity: >95%

M.F: C₃₀H₄₈O₇

M.W: 520.7

Physical Description: Powder

Synonyms: 2β,3β,16α,23,24-Pentahydroxyolean-12-en-28-oic acid.



[Intended Use]

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

[Source]

The roots of *Platycodon grandiflorus*.

[Biological Activity or Inhibitors]

Platycodigenin or polygalacic acid-containing total saponin preparation of Platycoden

grandiflorum A.DC, may have stimulating action on the pituitary-adrenocortical axis.^[1]

Saponins with a platycodigenin or polygalacic acid unit as a sapogenin have significant inhibitory effects on the proliferation of a small panel of cultured human tumor cells.^[2]

Platycodigenin has antioxidant activity. ^[3]

Contain mainly hederagenin, platycodigenin, polygalacic acid, 23-hydroxytormentonic acid, glycyrrhetic acid together with minor triterpene acids, could be a potential candidate for antiinflammatory therapeutics.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile -H₂O=45:55 ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Yokoyama H, Hiai S, Oura H. *Yakugaku Zasshi* ., 1982, 102(12):1191-4.

[2] Choi Y H, Yoo D S, Cha M R, et al. *J. Nat. Prod.*, 2010, 73(11):1863-7.

[3] Chang S R, Kim C H, Sang Y L, et al. *Food Chem.*, 2012, 132(1):333-7.

[4] Nam J H, Jung H J, Park H J, et al. *한국자원식물학회지*, 2007, 20(3):226-33.

[5] Wang Z, Li W, Meng Z J, et al. *Chinese Journal of Pharmaceutical Analysis*, 2010, 30(7):1308-10.

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