

Palbinone Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Palbinone

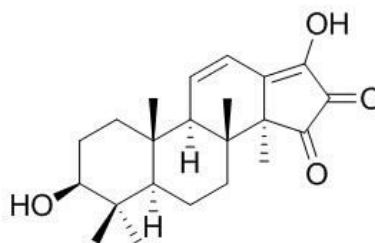
Catalog No.: CFN96019

Cas No.: 139954-00-0

Purity: >=95%

M.F: C₂₂H₃₀O₄

M.W: 358.5



Physical Description: Orange powder

Synonyms: 18-Norandrost-11,13(17)-diene-15,16-dione, 3,17-dihydroxy-4,4,8,14-tetramethyl-, (3 β ,5 α)-; (3 β ,5 α ,8 ξ ,14 ξ)-3,17-dihydroxy-4,4,8,10,14-pentamethylgon-11,13(17)-diene-15,16-dione.

[Intended Use]

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

[Source]

The roots of *Paeonia lactiflora* Pall.

[Biological Activity or Inhibitors]

Palbinone has a very strong inhibitory activity on the reduced form of nicotinamide adenine dinucleotide phosphate (NADPH) linked 3 α -hydroxysteroid dehydrogenase (3 α -HSD) of rat liver cytosol and shows a significant inhibitory activity on human monocyte interleukin-1 β , a polypeptide which is thought to play an important role in inflammation.^[1]

Palbinone displays the greatest potential anti-diabetic activity via activation of AMPK in insulin-resistant human HepG2 Cells.^[2]

[Solvent]

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

[HPLC Method]^[3]

HPLC-MS:

Mobile phase: Acetonitrile- 0.1% Acetic acid in water, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

Capillary temperature: 350°C ;

Vaporization temperature : 300°C.

[Storage]

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

[References]

[1] Kadota S, Basnet P, Terashima S, *et al. Phytother. Res.*, 1995, 9(5):379-81.

[2] Ha D T, Tuan D T, Thu N B, *et al. Cheminform*, 2009, 19(19):5556-9.

[3] Pei Y L, Wu Z S, Shi X Y, *et al. Modernization of Traditional Chinese Medicine and Materia Medica-World Science and Technology*, 2014(10):2180-4.

[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