

## Palbinone Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** Palbinone

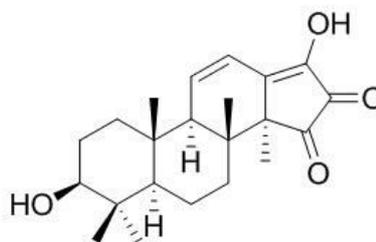
**Catalog No.:** CFN96019

**Cas No.:** 139954-00-0

**Purity:** >=95%

**M.F:** C<sub>22</sub>H<sub>30</sub>O<sub>4</sub>

**M.W:** 358.5



**Physical Description:** Orange powder

**Synonyms:** 18-Norandrosta-11,13(17)-diene-15,16-dione,3,17-dihydroxy-4,4,8,14-tetramethyl-,(3beta,5alpha)-;(3beta,5alpha,8xi,14xi)-3,17-dihydroxy-4,4,8,10,14-pentamethylgona-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 $\alpha$ -hydroxysteroid dehydrogenase (3 $\alpha$ -HSD) of rat liver cytosol and shows a significant inhibitory activity on human monocyte interleukin-1 $\beta$ , a polypeptide which is thought to play an important role in inflammation.<sup>[1]</sup>

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

## **[ Solvent ]**

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

## **[ HPLC Method ]**<sup>[3]</sup>

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 ]**

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