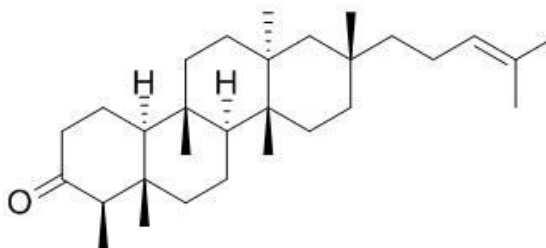


## Shionone Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)**[ Product Information ]****Name:** Shionone**Catalog No.:** CFN99784**Cas No.:** 17388-39-5**Purity:** >=98%**M.F:** C<sub>30</sub>H<sub>50</sub>O**M.W:** 426.72**Physical Description:** Powder

**Synonyms:**2(1H)-Chrysenone,hexadecahydro-1,4b,6a,8,10a,12a-;Hexamethyl-8-(4-methyl-3-pentenyl)-,(1R,4aS,4bS,6aS,8R,10aR,10bS,12aS)-;(1R,4bS,6aS,8R,10aR,12aS)-1,4b,6a,8,10a,12a-hexamethyl-8-(4-methylpent-3-en-1-yl)hexadecahydrochrysen-2(1H)-one.

**[ Intended Use ]**

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

**[ Source ]**The flower of *Chrysanthemum morifolium*.

## **[ Biological Activity or Inhibitors ]**

Shionone has anti-inflammatory effect, the mechanism is related to decrease the phosphorylation level of ERK1/2 protein and I $\kappa$ B $\alpha$  and the protein expression of i NOS.<sup>[1]</sup>

Shionone can inhibit the activity of ubiquitin-specific protease 2 (USP2) and provide a lead compound for future development of new USP2 inhibitors.<sup>[2]</sup>

## **[ Solvent ]**

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

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

Mobile phase: Acetonitrile-0.05% Phosphoric acid water =98: 2 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 220 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Wang F, Ren G, Pan L L, *et al.* *China Journal of Traditional Chinese Medicine & Pharmacy*, 2016(4):1430-3.

[2] Xie W J, Qin D J, Zhang J, *et al.* *Journal of Shanghai Jiaotong University*, 2014, 34(11):1563-7.

[3] Tian Y P, Wang Q, Yang W, *et al.* *Chinese Herbal Medicines*, 2010, 02(2):132-5.

## **[ Contact ]**

**Address:**  
S5-3 Building, No. 111, Dongfeng Rd.,

**Email:** info@chemfaces.com  
**Tel:** +86-27-84237783

Wuhan Economic and Technological Development Zone,  
Wuhan, Hubei 430056,  
China

**Fax:** +86-27-84254680

**Web:** [www.chemfaces.com](http://www.chemfaces.com)

**Tech Support:** [service@chemfaces.com](mailto:service@chemfaces.com)