

## Isocryptotanshinone Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

### [ Product Information ]

**Name:** Isocryptotanshinone

**Catalog No.:** CFN90355

**Cas No.:** 22550-15-8

**Purity:** > 98%

**M.F:** C<sub>19</sub>H<sub>20</sub>O<sub>3</sub>

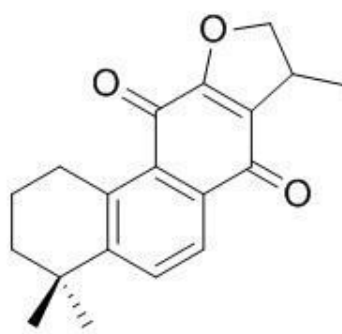
**M.W:** 296.36

**Physical Description:** White powder

**Synonyms:**

Phenanthro[3,2-b]furan-7,11-dione,1,2,3,4,8,9-hexahydro-4,4,8-trimethyl-, (S)- (8CI);

Isotanshinone III; 1,2,3,4,8,9-Hexahydro-4,4,8-trimethylphenanthro[3,2-b]furan-7H-dione.



### [ Intended Use ]

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

### [ Source ]

The roots of *Salvia miltiorrhiza*.

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

Isocryptotanshinone is a natural bioactive product that is isolated from the roots of the widely used medical herb *Salvia miltiorrhiza*, inhibits MCF-7 cell proliferation by inducing apoptosis and activating MAPK signaling pathways.<sup>[1]</sup>

Isocryptotanshinone is a STAT3 inhibitor, induces apoptosis and pro-death autophagy in A549 lung cancer cells.<sup>[2]</sup>

## **[ Solvent ]**

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

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

Mobile phase: Acetonitrile-H<sub>2</sub>O=60:40;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 270 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Zhang X, Luo W, Zhao W, *et al. J. Breast Cancer*, 2015, 18(2):112-8.

[2] Guo S, Luo W, Liu L, *et al. J. Drug. Target.*, 2016, 24:1-28.

[3] Weng Q, Yu X, Feng F, *et al. Asia-Pacific Traditional Medicine*, 2011, 07(8):5-7.

## **[ Contact ]**

### **Address:**

S5-3 Building, No. 111, Dongfeng Rd.,  
Wuhan Economic and Technological Development Zone,  
Wuhan, Hubei 430056,

**Email:** [info@chemfaces.com](mailto:info@chemfaces.com)

**Tel:** +86-27-84237783

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

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

China

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