



## Neocryptotanshinone II Datasheet

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

### [ Product Information ]

**Name:** Neocryptotanshinone II

**Catalog No.:** CFN92160

**Cas No.:** 27468-20-8

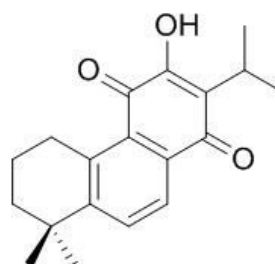
**Purity:** > 98%

**M.F:** C<sub>19</sub>H<sub>22</sub>O<sub>3</sub>

**M.W:** 298.4

**Physical Description:** Cryst.

**Synonyms:** 5,6,7,8-Tetrahydro-3-hydroxy-2-isopropyl-8,8-dimethyl-1,4-phenanthrenedione.



### [ 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 ]**

Neocryptotanshinone (NCTS) is a natural product isolated from traditional Chinese herb *Salvia miltiorrhiza* Bunge, it inhibits lipopolysaccharide-induced inflammation in RAW264.7 macrophages by suppression of NF- $\kappa$ B and iNOS signaling pathways, suggests that NCTS shows anti-inflammatory effect by suppression of NF-  $\kappa$  B and iNOS signaling pathways.<sup>[1]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[2]</sup>**

Mobile phase: Methanol- H<sub>2</sub>O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 240 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Wu C, Zhao W, Zhang X, *et al. Acta Pharmaceutica Sinica B*, 2015, 5(4):323-9.

[2] Chu Z Y, Wu L H, Tian L. *China Journal of Chinese Materia Medica*, 2014, 39(6): 1016-9.

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