

## Dehydromiltirone Datasheet

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

### [ Product Information ]

**Name:** Dehydromiltirone

**Catalog No.:** CFN98532

**Cas No.:** 116064-77-8

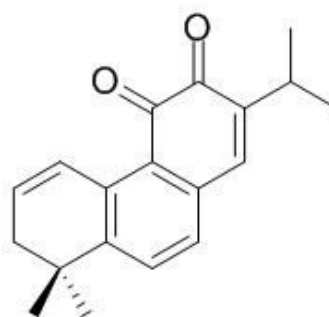
**Purity:** > 98%

**M.F:** C<sub>19</sub>H<sub>20</sub>O<sub>2</sub>

**M.W:** 282.38

**Physical Description:** Red cryst.

**Synonyms:** 8,8-Dimethyl-2-propan-2-yl-7H-phenanthrene-3,4-dione.



### [ Intended Use ]

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

### [ Source ]

The herb of *Salvia miltiorrhiza* Bge.

### [ Biological Activity or Inhibitors ]

Dehydromiltirone shows significant anti-neuroinflammatory effects through inhibiting PI3K/Akt phosphorylation and then inhibiting NF- $\kappa$ B signaling pathway.<sup>[1]</sup>

Dehydromiltirone has antioxidant activity.<sup>[2]</sup>

## **[ Solvent ]**

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

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

Mobile phase: Acetonitrile-0.5% Acetic acid H<sub>2</sub>O, gradient elution;

Flow rate:0.8 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 281 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Li D C, Bao X Q, Zhang D W, *et al. Chinese Pharmacological Bulletin*, 2016(2):177-83.

[2] Gong BA, Cheng J B, Jiang Z M, *et al. Journal of Yantai University*, 2000, 13(3):176-80.

[3] Wang H, Wang Q. *Journal of Chinese Pharmaceutical Sciences*, 2002, 11(4):148-52.

## **[ Contact ]**

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