

## Methylenetanshinquinone Datasheet

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

### [ Product Information ]

**Name:** Methylenetanshinquinone

**Catalog No.:** CFN92179

**Cas No.:** 67656-29-5

**Purity:** > 98%

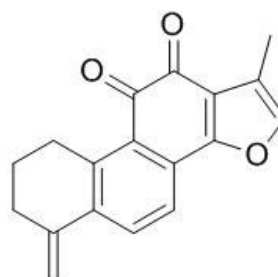
**M.F:** C<sub>18</sub>H<sub>14</sub>O<sub>3</sub>

**M.W:** 278.3

**Physical Description:** Cryst.

**Synonyms:**

1-Methyl-6-methylidene-6,7,8,9-tetrahydrophenanthro[1,2-b]furan-10,11-dione.



### [ Intended Use ]

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

### [ Source ]

The roots of *Salvia miltiorrhiza*.

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

Methylenetanshinquinone , isolated from Rhizomes of tanshen (*Salvia miltiorrhiza* Bung) , has antioxidant activities, and shows strong activities comparable to that of BHA and BHT, it may have the potential of being used as natural antioxidants in foods and cosmetics.<sup>[1]</sup>

Methylenetanshinquinone has antiplasmodial and antitrypanosomal activities, it ranges from 4.1  $\mu$ M to over 30  $\mu$ M against *P. falciparum* K1 strain with selectivity indices (SI) from 0.3 to 1.9; IC<sub>50s</sub> against *T. brucei rhodesiense* STIB 900 are from 0.5 $\mu$ M to over 30 $\mu$ M, and it shows the greatest selective activity with an SI of 24.<sup>[2]</sup>

## **[ Solvent ]**

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

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

Mobile phase: Methanol- 1% Acetic acid H<sub>2</sub>O=8:92 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 280 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Zhang K Q, Bao Y, Wu P, *et al. J. Agr. Food Chem.*, 1990, 38(5):1194-7.

[2] Slusarczyk S, Zimmermann S, Kaiser M, *et al. Planta Med.*, 2011, 77(14):1594-6.

[3] Suo Y K, Huo B K, Qin J G. *Chinese Pharmaceutical Affairs*, 2012, 26(4):379-81.

## **[ Contact ]**

**Address:**

**Email:** info@chemfaces.com

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

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

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

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

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