

## Przewaquinone A Datasheet

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

### [ Product Information ]

**Name:** Przewaquinone A

**Catalog No.:** CFN92022

**Cas No.:** 76843-23-7

**Purity:** > 98%

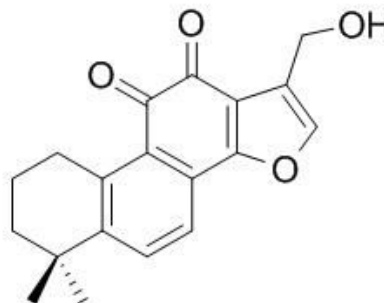
**M.F:** C<sub>19</sub>H<sub>18</sub>O<sub>4</sub>

**M.W:** 310.4

**Physical Description:** Cryst.

**Synonyms:**

Phenanthro[1,2-b]furan-10,11-dione,6,7,8,9- tetrahydro-1-(hydroxymethyl)-6,6-dimethyl-



### [ 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 ]

Przewaquinone A , a lipophilic diterpene quinone present only in *S. przewalskii*, induced a high inhibitory action on vascular contraction in endothelium-independent and reversible manner. [1]

Przewaquinone A has antiproliferative activity against three human cancer cell lines (a lung cancer (A-427), a urinary bladder cancer (5637) and a breast cancer (MCF-7) cell line), and shows potent cytotoxic effect against all cancer cell lines (IC50 between 1 and 8 microM) as well as antibacterial effect against the bacteria tested (MIC values between 33 and 70 microM). [2]

### **[ Solvent ]**

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

### **[ HPLC Method ]** [3]

Mobile phase: Methanol -H2O=77:23 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Wan A K S, Leung S W S, Zhu D Y, *et al. J. Nat. Prod.*, 2008, 71(11):1825-8.

[2] Mothana R A, Jansen R, Gruenert R, *et al. Pharmazie*, 2009, 64(9):613-5.

[3] Sun P, He L Y. *Acta Pharm. Sin.*, 1995(9):711-4.

### **[ 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)