

## Artemether Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** Artemether

**Catalog No.:** CFN99184

**Cas No.:** 71963-77-4

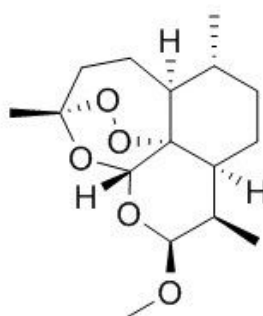
**Purity:** >=98%

**M.F:** C<sub>16</sub>H<sub>26</sub>O<sub>5</sub>

**M.W:** 298.38

**Physical Description:** White powder

**Synonyms:** (3R,5aS,6R,8aS,9R,10S,12R,12aR)-10-methoxy-3,6,9-trimethyldecahydro-3,12-epoxy[1,2]dioxepino[4,3-i]isochromene; Artemetherum.



### [ Intended Use ]

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

### [ Source ]

The herbs of *Artemisia annua* L.

### [ Biological Activity or Inhibitors ]

Artemether and arteether have fatal neurotoxicity.<sup>[1]</sup>

Artemether-lumefantrine is a new treatment combination for multi-drug resistant falciparum malaria.<sup>[2]</sup>

Artemether exhibits the highest activity against juvenile stages of the parasites, while adult worms are significantly less susceptible, suggests that artemether-integrated with other control strategies-has considerable potential for reducing the current burden of schistosomiasis in different epidemiological settings.<sup>[3]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]<sup>[4]</sup>**

Mobile phase: Phosphate buffer-Methanol=50: 50;

Flow rate: 1.0 ml/min;

Column temperature:Room Temperature;

The wave length of determination: 273 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Brewer T G, Grate S J, Peggins J O, *et al. Am. J. Trop. Med. Hyg.*,1994 Sep;51(3):251-9.

[2] Vugt v M. *University of Amsterdam*, 1999.

[3] Xiao S, Tanner M, N'Goran E K, *et al. Acta Trop.*, 2002 May;82(2):175-81.

[4] Mondal P, Shobha Rani S, Ramakrishna R. *Curr. Pharm.Anal.*,2014, 10(4):271-8.

### **[ Contact ]**

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