

## Arnidiol Datasheet

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

### [ Product Information ]

**Name:** Arnidiol

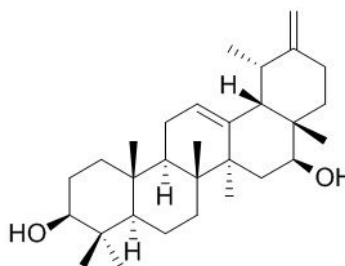
**Catalog No.:** CFN93111

**Cas No.:** 6750-30-7

**Purity:** > 95%

**M.F:** C<sub>30</sub>H<sub>48</sub>O<sub>2</sub>

**M.W:** 440.7



**Physical Description:** Powder

**Synonyms:** (3beta,9xi,16beta,19alpha)-urs-20(30)-ene-3,16-diol.

### [ Intended Use ]

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

### [ Source ]

The herbs of *Tussilago farfara*.

### [ Biological Activity or Inhibitors ]

Arnidiol shows inhibitory effects against Epstein-Barr virus early antigen (EBV-EA)

activation with potencies either comparable with or stronger than that of glycyrrhetic acid, a known natural anti-tumor-promoter; it also possesses a wide range of cytotoxicity against human cancer cell lines, with GI50 values (concentration that yields 50% growth) of mostly less than 6 microM.<sup>[1]</sup>

Arnidiol, heliantriol B0, heliantriol C and arnidiol possess marked inhibitory activity against 12-O-tetradecanoylphorbol-13-acetate (TPA)-induced inflammation in mice, the 50% inhibitory dose of these compounds with respect to TPA-inflammation (1 microgram) is 0.03-0.2 mg/ear, suggests that they have anti-inflammatory activity.<sup>[2]</sup>

### **[ Solvent ]**

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

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

HPLC-APCI-MS:

Mobile phase: Methanol;

Flow rate: 1.0 ml/min;

Temperature of the chamber:50°C;

Spray shield voltage: 600V;

Pressure of the nebulizer gas:60psi;

Pressure of the drying gas:20psi;

Temperature of the drying gas:150°C;

Capillary voltage:150V;

RF load :70%;

Crown current:5uA.

### **[ Storage ]**

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

## **[ References ]**

- [1] Ukiya M, Akihisa T, Tokuda H, *et al.* *Cancer Lett.*, 2002, 177(1):7-12.
- [2] Yasukawa K, Akihisa T, Oinuma H, *et al.* *Biol. Pharm. Bull.*, 1996, 19(10):1329-31.
- [3] Baratto G, Riva E. *EP2520306[P]*. 2012.

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