

## Echinatine Datasheet

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

### [ Product Information ]

**Name:** Echinatine

**Catalog No.:** CFN00255

**Cas No.:** 480-83-1

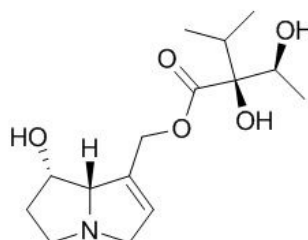
**Purity:** > 95%

**M.F:** C<sub>15</sub>H<sub>25</sub>NO<sub>5</sub>

**M.W:** 299.37

**Physical Description:** Powder

**Synonyms:** (1-Hydroxy-2,3,5,7a-tetrahydro-1H-pyrrolizin-7-yl)methyl-2,3-dihydroxy-2-iso-propylbutanoate.



### [ Intended Use ]

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

### [ Source ]

The herbs of *Eupatorium cannabinum* L.

### [ Biological Activity or Inhibitors ]

Echinatin can inhibit DNP-ATPase activity while stimulating range latent ATPase activity in the low concentration, so echinatin can disturb the mitochondrial energy transfer reactions and membrane permeability.<sup>[1]</sup>

Echinatin exerts a protective effect against ischemia/reperfusion (I/R)-induced myocardial injury on hearts, this effect may be attributed to the antioxidant and anti-inflammatory activities of this compound.<sup>[2]</sup>

### **[ Solvent ]**

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

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

HPLC-MS:

Mobile phase: Acetonitrile-15 mM Ammonia water solution, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

Flow rate of gas (N<sub>2</sub>): 70 L / min;

Capillary temperature : 150 °C;

APCI vaporizer temperature : 400 °C;

The source voltage: 6.0 kV;

The capillary voltage: 46V;

Mass scan range: 150-500 amu.

### **[ Storage ]**

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

### **[ References ]**

[1] Inoue B, Inaba K, Mori T, *et al. J.Toxicol. Sci.*, 1982, 7(4):245-54.

[2] Tian X H, Liu C L, Jiang H L, *et al. BMC Cardiovasc. Disor.*, 2016, 16(1):1-9.

[3] Mroczek T, Ndjoko-loset K, Głowniak K, *et al. Anal. Chim. Acta*, 2006, 566(2):157-66.

## **[ Contact ]**

**Address:**

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

**Email:** [info@chemfaces.com](mailto:info@chemfaces.com)

**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)