

## Euphorbia factor L1 Datasheet

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

### [ Product Information ]

**Name:** Euphorbia factor L1

**Catalog No.:** CFN92883

**Cas No.:** 76376-43-7

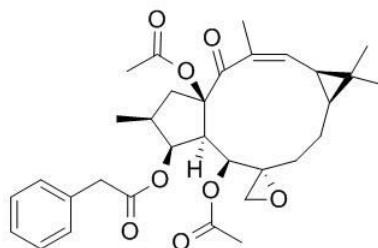
**Purity:** >=98%

**M.F:** C<sub>32</sub>H<sub>40</sub>O<sub>8</sub>

**M.W:** 552.7

**Physical Description:** Cryst.

**Synonyms:** .



### [ Intended Use ]

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

### [ Source ]

The herbs of *Euphorbia pekinensis* Rupr.

### [ Biological Activity or Inhibitors ]

Euphorbia factor L1 can reverse ABCB1-mediated multidrug resistance involving

interaction with ABCB1 independent of ABCB1 downregulation.<sup>[1]</sup>

Euphorbia factor L1 can inhibit cell proliferation in a concentration-dependent manner in KB, KBv200, MCF-7 and MCF-7/ADR cells after 72 h treatment, the IC<sub>50</sub> values are 30.83 ± 2.93, 28.11 ± 3.08, 39.47 ± 4.13 and 45.69 ± 4.20 ug/ml, respectively; suggests that Euphorbia factor L1 exhibits similar cytotoxicity to drug-sensitive parental KB cells and MDR KBv200 cells; it also exhibits similar cytotoxicity to drug-sensitive parental MCF-7 cells and MDR MCF-7/ADR cells.<sup>[2]</sup>

### **[ Solvent ]**

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

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

Mobile phase: Methanol -H<sub>2</sub>O=75:25 ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 280 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Zhang J Y, Mi Y J, Chen S P, *et al. J. Cell. Biochem.* 2011, 112(4):1076-83.

[2] Zhang J Y, Chao Z, Chen H B, *et al. J. Med. Plant Res.*, 2010, 4(4):335-8.

[3] Sun H F, Liu G Y, Sun T, *et al. Chinese Journal of Pharmaceutical Analysis*, 2009(6):909-11.

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