



## 9,13-Epidioxy-8(14)-abieten-18-oic acid Datasheet

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

### [ Product Information ]

**Name:** 9,13-Epidioxy-8(14)-abieten-18-oic acid

**Catalog No.:** CFN98885

**Cas No.:** 5309-35-3

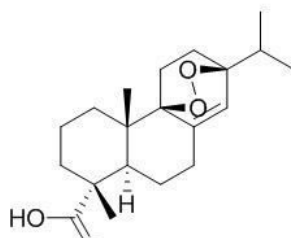
**Purity:** > 95%

**M.F:** C<sub>20</sub>H<sub>30</sub>O<sub>4</sub>

**M.W:** 334.5

**Physical Description:** Powder

**Synonyms:**



### [ Intended Use ]

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

### [ Source ]

The heartwood of *Podocarpus macrophyllus*.

### [ Biological Activity or Inhibitors ]

9,13 $\beta$ -Epidioxy-8(14)-abieten-18-oic acid exhibits moderate activities on NO levels in LPS-stimulated murine microglia BV2 cells, with IC<sub>50</sub> values of 57.3  $\pm$  0.2  $\mu$ M, suggests that it has anti-inflammatory activities.<sup>[1]</sup>

9 $\alpha$ ,13 $\alpha$ -Epidioxyabiet-8(14)-en-18-oic acid shows potent inhibitory effects on Epstein-Barr virus early antigen (EBV-EA) activation induced by the tumor promoter 12-O-tetradecanoylphorbol 13-acetate, suggests that it is a potential antitumor-promoting diterpenoid.<sup>[2]</sup>

9  $\alpha$  ,13  $\beta$  -Epidioxyabiet-8(14)en-18-oic acid may contribute to the growth inhibitory effect of the pine needles and may play an important role in the allelopathy of red pine. <sup>[3]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]<sup>[1]</sup>**

Mobile phase: Acetonitrile- H<sub>2</sub>O,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature:Room Temperature;

The wave length of determination: 240 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Kim C S, Subedi L, Kim S Y, *et al.* *J. Nat. Prod.*, 2016, 79(2):387-94.

[2] Kinouchi Y, Ohtsu H, Tokuda H, *et al.* *J. Nat. Prod.*, 2000, 63(6):817-20.

[3] Katonoguchi H, Fushimi Y, Shigemori H. *J. Plant Physiol.*, 2009, 166(4):442-6.

### **[ Contact ]**

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