

## Labd-13-ene-8,15-diol Datasheet

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

### [ Product Information ]

**Name:** Labd-13-ene-8,15-diol

**Catalog No.:** CFN99042

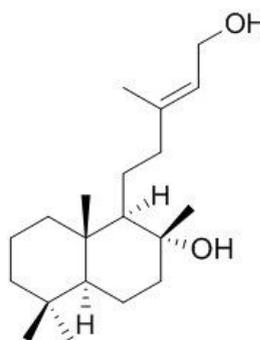
**Cas No.:** 10267-31-9

**Purity:** > 95%

**M.F:** C<sub>20</sub>H<sub>36</sub>O<sub>2</sub>

**M.W:** 308.5

**Physical Description:** Powder



**Synonyms:**(1R,2R,4aS,8aS)-1-[(3E)-5-Hydroxy-3-methyl-3-penten-1-yl]-2,5,5,8 a-tetramethyldecahydro-2-naphthalenol;8a,15-Dihydroxy-13E-labdene;(E)-Labd-13-ene-8,15-diol.

### [ Intended Use ]

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

### [ Source ]

The fruits of *Zizyphus jujuba*.

### [ Biological Activity or Inhibitors ]

13(E)-Labd-13-ene-8 $\alpha$ ,15-diol shows antiviral and anticancer activity, it shows strong anti-HRV2 and HRV3 activity with a 50% inhibitory concentration (IC<sub>50</sub>) of 2.68 and 0.87 microg/mL, respectively; it also exhibits antilung and antilaryngeal cancer activities against A549 and Hep2 cells.<sup>[1]</sup>

13(E)-Labd-13-ene-8 $\alpha$ ,15-diol inhibits the growth of the gram-positive bacteria (Staphylococcus aureus, Bacillus cereus and Listeria monocytogenes) and gram-negative bacteria (Vibrio parahaemolyticus, Escherichia coli and Salmonella enteritidis) with a range of minimum inhibitory concentration (MIC) values from 0.092 to 0.598 mg/mL and gram-negative bacteria are more sensitive to the compound (MIC, 0.092 mg/mL).<sup>[2]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]**

Not data available.

### **[ Storage ]**

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

### **[ References ]**

[1] Choi H J, Song J H, Kwon D H, *et al. Phytother. Res.*,2010 Feb;24(2):169-74.

[2] Jong-Im Kim, Hwa-Jung Choi, Jae-Sook Lee. *J. Appl. Biol. Chem.*,2013, 56(1):581-90.

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