

## Isodunnianol Datasheet

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

### [ Product Information ]

**Name:** Isodunnianol

**Catalog No.:** CFN99449

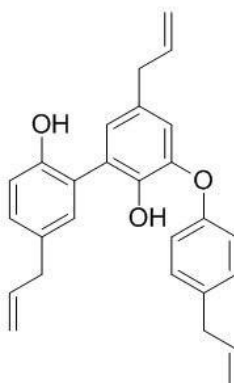
**Cas No.:** 139726-30-0

**Purity:** > 95%

**M.F:** C<sub>27</sub>H<sub>26</sub>O<sub>3</sub>

**M.W:** 398.5

**Physical Description:** Powder



**Synonyms:** 5,5'-Diallyl-3-(4-allylphenoxy)-2,2'-biphenyldiol; 12-Hydroxy-drim-8-en-11-oic acid-lactone.

### [ Intended Use ]

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

### [ Source ]

The fruits of *Illicium fargesii*.

### [ Biological Activity or Inhibitors ]

Isodunnianol, dunnianol, and Macranthol have anti-inflammatory activity, they can increase NAG-1(multiple targets related to inflammation) activity 1.5 -3.0 fold and decrease cellular oxidative stress by 40-65%, they show substantial activity against iNOS.<sup>[1]</sup>

Isodunnianol exhibits neurite outgrowth-promoting activity at the concentration ranging from 0.1 to 10  $\mu$ M in the primary cultured rat cortical neurons.<sup>[2]</sup>

Isodunnianol exhibits anti-AChE activity with an IC<sub>50</sub> value of 13.0  $\mu$ M.<sup>[3]</sup>

### **[ Solvent ]**

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

### **[ HPLC Method ]<sup>[4]</sup>**

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

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 254 nm.

### **[ Storage ]**

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

### **[ References ]**

[1] Li C, Ali Z, Chen W, *et al. Planta Med.*,2014, 80(10):807-807.

[2] Moriyama M, Huang J M, Yang C S, *et al.Tetrahedron*, 2007, 63(20):4243-9.

[3] Dong C F, Liu L, Luo H R, *et al.Natural Products and Bioprospecting*,2012, 2(3):133-7.

[4] Ning D S,Fu Y X, Pan Z H, *et al. 2nd International Conference on Advances in Energy, Environment and Chemical Engineering (AEECE 2016):0040-5.*

### **[ Contact ]**

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