

## Lyoniresinol Datasheet

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

### [ Product Information ]

**Name:** Lyoniresinol

**Catalog No.:** CFN99488

**Cas No.:** 14464-90-5

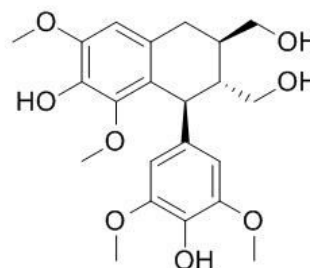
**Purity:** > 98%

**M.F:** C<sub>22</sub>H<sub>28</sub>O<sub>8</sub>

**M.W:** 420.5

**Physical Description:** Powder

**Synonyms:** Pygeoresinol; (+)-Lyoniresinol



### [ Intended Use ]

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

### [ Source ]

The root of *Vitex negundo*.

## **[ Biological Activity or Inhibitors ]**

Lyoniresinol is one of the eight lignans purified from methanol extract of *Vitex negundo* and has robust tyrosinase inhibitory capacity, it decreases tyrosinase activity and melanin biosynthesis in B16F10 cells by activating ERK signaling, which downregulates MITF, tyrosinase, but not TRP-1 and TRP-2 protein expression, it can perhaps be incorporated into clinical dermatologic use as a skin lightening agent. <sup>[1]</sup>

Lyoniresinol has antioxidative activity of pickled ume.<sup>[2]</sup>

## **[ Solvent ]**

Chloroform, Dichloromethane, DMSO, Acetone, etc.

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

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

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 202 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Liu H, Sui X, Li X, *et al. Mol. Cell Biochem.*, 2013, 373(1-2):211-6.

[2] Shirasaka N, Takasaki R, Yoshizumi H. *West African J. Med.*, 1994, 13(1):495-8.

[3] Chen Z Y, Wu J J, Liu X M, *et al. Food Sci.*, 2009, 30(15):82-5.

## **[ Contact ]**

**Address:**

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

**Email:** info@chemfaces.com

**Tel:** +86-27-84237783

**Fax:** +86-27-84254680

Wuhan, Hubei 430056,  
China

**Web:** [www.chemfaces.com](http://www.chemfaces.com)

**Tech Support:** [service@chemfaces.com](mailto:service@chemfaces.com)