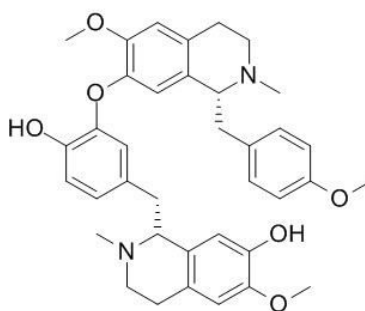


## Isoliensinine Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)**[ Product Information ]****Name:** Isoliensinine**Catalog No.:** CFN99574**Cas No.:** 6817-41-0**Purity:** >=98%**M.F:** C<sub>37</sub>H<sub>42</sub>N<sub>2</sub>O<sub>6</sub>**M.W:** 610.75**Physical Description:** White powder**Synonyms:** (+)-Isoliensinin; (1R)-1,2,3,4-Tetrahydro-1-[[[4-hydroxy-3-[[[(1R)-1,2,3,4-tetrahydro-6-methoxy-1-[(4-methoxyphenyl)methyl]-2-methyl-7-isoquinolinyl]oxy]phenyl]methyl]-6-methoxy-2-methyl-7-isoquinolinol].**[ Intended Use ]**

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

**[ Source ]**The plantule of *Nelumbo nucifera Gaertn.*

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

Isoliensinine possesses a significant inhibitory effect on bleomycin (BLM)-induced pulmonary fibrosis, probably due to its antioxidant and/or anti-inflammatory activities and inhibitory overexpressing tumor necrosis factor alpha (TNF-alpha) and transforming growth factor beta 1 (TGF-beta (1)) induced by BLM.<sup>[1]</sup>

Isoliensinine possesses remarkable effects on anti-lipid peroxidation.<sup>[2]</sup>

Isoliensinine possesses an anti-proliferative effect on angiotensin II-induced proliferation of porcine coronary arterial smooth muscle cells, which is related to the decrease of the overexpression of growth factors Platelet-derived growth factor (PDGF)-beta, basic fibroblast growth factor (bFGF), proto-oncogene c-fos, c-myc and hsp70. <sup>[3]</sup>

Isoliensinine can induce apoptosis in triple-negative human breast cancer cells through ROS generation and p38 MAPK/JNK activation, it exerts anti-cancer activity.<sup>[4]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[5]</sup>**

Mobile phase: Methanol- 0.2 MKH<sub>2</sub>PO<sub>4</sub>-0.2M NaOH-Triethylamine(pH9.2-9.3) =71:17:

12:0.002 ;

Flow rate: 0.8 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 282 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Xiao J H, Zhang J H, Chen H L, *et al. Planta Med.*, 2005, 71(3):225-30.

[2] Wang H, Yang L, Yang J, *et al.* *Chinese Journal of Hospital Pharmacy*, 2005, 25(5):402-4.

[3] Xiao J H, Zhang Y L, Feng X L, *et al.* *J. Asian Nat. Prod. Res.*, 2006, 8(3):209-16.

[4] Zhang X, Wang X, Wu T, *et al.* *Sci. Rep.-UK*, 2015, 5: 12579.

[5] Huang Y, Zhao L, Bai Y, *et al.* *Arzneimittel-Forschung*, 2011, 61(6):347-52.

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