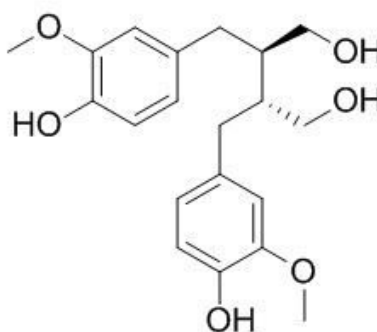


Secoisolariciresinol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Secoisolariciresinol**Catalog No.:** CFN98363**Cas No.:** 29388-59-8**Purity:** > 95%**M.F:** C₂₀H₂₆O₆**M.W:** 362.4**Physical Description:** Powder**Synonyms:** (2R,3R)-2,3-bis[(4-Hydroxy-3-methoxyphenyl)methyl]butane-1,4-diol.

[Intended Use]

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

[Source]

The Heartwood of *Podocarpus spicata*.

[Biological Activity or Inhibitors]

Secoisolariciresinol and matairesinol are enterolignan precursors.^[1]

Secoisolariciresinol has antioxidant activity.^[2]

Secoisolariciresinol and isotaxiresinol prevent d-GalN/LPS-induced hepatic injury by inhibiting hepatocyte apoptosis through the blocking of TNF-alpha and IFN-gamma production by activated macrophages and direct inhibition of the apoptosis induced by TNF-alpha.^[3]

Secoisolariciresinol has estrogen-like activity, it can significantly suppress triglyceride (TG) accumulation in 3T3-L1 adipocytes.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: 0.1% Trifluoroacetic acid in water- 45% Acetonitrile in water, gradient elution ;

Flow rate:0.2 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] Milder I E, Arts I C, Van d P B, *et al. Br. J. Nutr.*,2005 Mar;93(3):393-402.

[2] Prasad K. *Int. J. Angiol.*,2000 Oct;9(4):220-5.

[3] Banskota A H, Nguyen N T, Tezuka Y, *et al. Life Sci.*,2004 Apr 16;74(22):2781-92.

[4] Tominaga S, Sugahara T, Nishimoto S, *et al. Biosci. Biotechnol. Biochem.*,2009 Jan; 73(1):35-9.

[5] Kosin´Ska A, Urbalewicz A, Penkacik K, *et al. Pol. J. Food Nutr. Sci.*,2011, 61(4):

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