

DL-Syringaresinol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: DL-Syringaresinol

Catalog No.: CFN99276

Cas No.: 1177-14-6

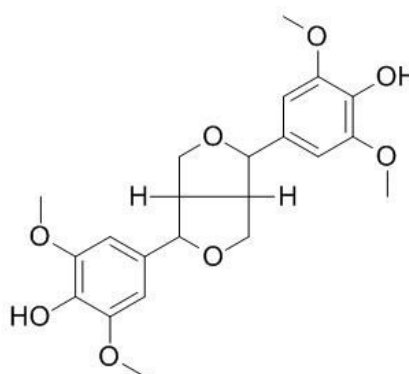
Purity: > 98%

M.F: C₂₂H₂₆O₈

M.W: 418.4

Physical Description: Powder

Synonyms: 4,4'-(1S,3aR,4S,6aR)-Tetrahydro-1H,3H-furo[3,4-c]furan-1,4-diylbis(2,6-dimethoxyphenol).



[Intended Use]

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

[Source]

The herbs of *Liriodendron tulipifera*.

[Biological Activity or Inhibitors]

(+)-Syringaresinol, a methanol extract from unripe Japanese apricot, shows inhibitory activity of *Helicobacter pylori* motility with the IC₅₀ value is 50 microg/ml.^[1]

(-)-Syringaresinol has been reported to potently inhibit the proliferation of human promyelocytic HL-60 cells through G 1 arrest and induction of apoptosis, suggests that (-)-syringaresinol may be a potential chemotherapeutic agent for the treatment of cancer.^[2]

Syringaresinol induces vasorelaxation by enhancing NO production in endothelial cells via two distinct mechanisms, phosphatidylinositol 3-kinase/Akt- and (PLC)/Ca²⁺/CaMKK β -dependent eNOS phosphorylation and Ca(2+)-dependent eNOS dimerization.^[3]

Syringaresinol can protect against hypoxia/reoxygenation-induced cardiomyocytes injury and death by destabilization of HIF-1 α in a FOXO3-dependent mechanism.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Methanol-H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 220 nm.

[Storage]

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

[References]

[1] Miyazawa M, Utsunomiya H, Inada K, *et al. Biol. Pharm. Bull.*, 2006, 29(1):172-3.

[2] Park B Y, Oh S R, Ahn K S, *et al. Int. Immunopharmacol.*, 2008, 8(7):967-73.

[3] Chung B H, Kim S, Kim J D, *et al. Exp. Mol. Med.*, 2012, 44(3):191-201.

[4] Cho S, Cho M, Kim J, *et al. Oncotarget*, 2015, 6(1):43-55.

[5] Feng D Z, Li Fang, Bai D, *et al. Chinese Archives of Traditional Chinese Medicine*, 2007, 25(8):1725-6.

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