

Syringaresinol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Syringaresinol

Catalog No.: CFN92060

Cas No.: 487-35-4

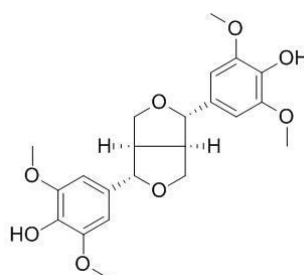
Purity: > 95%

M.F: C₂₂H₂₆O₈

M.W: 418.4

Physical Description: Powder

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



[Intended Use]

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

[Source]

The branch of *Liriodendron chinensis*.

[Biological Activity or Inhibitors]

(+)-Syringaresinol from unripe Japanese apricot has inhibition of *Helicobacter pylori*

motility at a concentration of 500 microg/ml and the IC₅₀ value was 50 microg/ml. ^[1]

(-)-Syringaresinol and tricin show inhibitory effects on the P-glycoprotein in adriamycin-resistant human breast cancer cells, MCF-7/ADR. ^[2]

(-)-Syringaresinol can 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. ^[3]

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. ^[4]

[Solvent]

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

[HPLC Method] ^[5]

Mobile phase: Acetonitrile- H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

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. Pharmaceut. Bull.*, 2006, 29(1):172-3.

[2] Yeon Hee Jeong, Soo Yeon Chung, Ah Reum Han, *et al. Chem. Biodivers.*, 2007, 4(1): 12-6.

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

[4] Chung B H, Kim S, Kim J D, *et al. Exp. Mol. Med.*, 2011, 44(3):191-201.

[5] Jiao Z H, Gu X Y, Yang X Y. *Chinese Journal of Information on Traditional Chinese Medicine*, 2007, 14(8):50-1.

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