Natural Products

ChemFaces

Syringin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Syringin

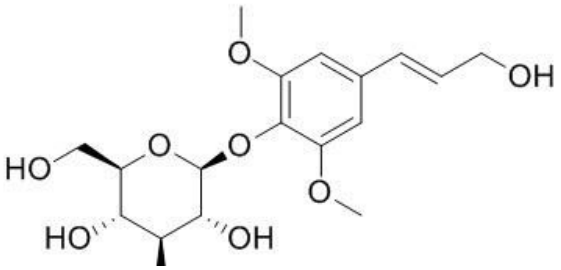
Catalog No.: CFN99282

Cas No.: 118-34-3

Purity: >=98%

M.F: $C_{17}H_{24}O_9$

M.W: 372.37



Physical Description: Powder

Synonyms: Eleutheroside B; 4-[(1E)-3-hydroxyprop-1-en-1-yl]-2,6-dimethoxyphenyl beta-D-glucopyranoside.

[Intended Use]

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

[Source]

The fruits of *Syringa vulgaris.*

[Biological Activity or Inhibitors]

Syringin, a main active substance isolated from Eleutherococcus senticosus, has immunomodulatory and anti-inflammatory properties, it may alleviate the fulminant hepatic failure (FHF) induced by LPS/D-GalN through inhibiting NF-κB activation to reduce TNF-α production. [1]

Syringin after oral administration has anti-inflammatory and antinociceptive effects, the mechanism may be attributed to its in vivo transformation to sinapyl alcohol.[2]

Syringin may be implicated as an immunomodulator having an anti-allergic effect rather than an anti-inflammatory effect, the anti-allergic effect of syringin seems to be due, in part, to inhibition of TNF-alpha production and cytotoxic T cell proliferation. [3]

Syringin is expected to be useful for preventing Aβ (25–35) -induced neuronal cell damage, the neuroprotective effect of syringin seems to be originated from the reduction of apoptosis since decrease in caspase-3 activity and expression, reduction in cleaved PARP, and DNA fragmentation [4]

Syringin causes a dose dependent fall in systolic, diastolic and mean arterial blood pressure, whereas heart rate also decreases at a slightly higher dose; the hypotensive activity was not inhibited by antihistamine or antimuscarinic agents, it has no effect on the pressor effect induced by norepinephrine or carotid occlusion.[5]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method][6]

Mobile phase: Acetonitrile -H2O=5:95 ;

Flow rate: 1.0 ml/min;

Column temperature: 25 ℃;

The wave length of determination: 220 nm.

[Storage]

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

[References]

[1] Gong X, Zhang L, Jiang R, *et al. J. Appl. Toxicol., 2014, 34(3):265–71.*

[2] Choi J, Shin K M, Park H J, *et al. Planta Med., 2004, 70(11):1027-32.*

[3] Cho J Y, Nam K H, Kim A R, *et al. J. Pharm. Pharmacol., 2001, 53(9):1287-94.*

[4] Yang E J, Sangin K, Hyunyeong K, *et al. Arch. Pharm.l Res., 2010, 33(4):531-8.*

[5] Ahmad M, Aftab K. *Phytother. Res., 1995, 9(6):452-4.*

[6] Lv Y L, Wang C, Guo S, *et al. China Journal of Chinese Materia Medica, 2010, 35(20):2666-8.*

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