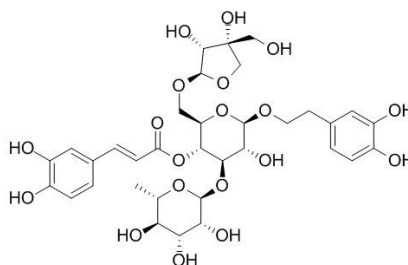


Forsythoside B Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Forsythoside B**Catalog No.:** CFN99715**Cas No.:** 81525-13-5**Purity:** >=98%**M.F:** C₃₄H₄₄O₁₉**M.W:** 756.70**Physical Description:** Powder**Synonyms:** (E)-O-D-Apio-beta-D-furanosyl-(1-6)-O-[6-deoxy-alpha-L-mannopyranosyl-(1-3)]-beta-D-glucopyranoside-2-(3,4-dihydroxyphenyl)ethyl-4-[3-(3,4-dihydroxyphenyl)-2-propenoate].**[Intended Use]**

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

[Source]The fruits of *Forsythia suspensa*.

[Biological Activity or Inhibitors]

Forsythoside B can exert potent neuroprotective effects with a favorable therapeutic time-window, reduce of cerebral ischemia and reperfusion injury degree, attenuating blood-brain barrier (BBB) breakdown, and its protective effects may be due to inhibition of inflammatory response.^[1]

Forsythoside B can rescue cardiac function from ischemia-reperfusion (I/R) injury by limiting inflammation response and its antioxidant properties.^[2]

Forsythoside B has antiseptis effect, the effect is mediated by decreasing local and systemic levels of a wide spectrum of inflammatory mediators; its antiseptis mechanism may be that Forsythoside B binds to LPS and reduces the biological activity of serum LPS, and inhibits NF- κ B activation, suggests that forsythoside B itself has promise as a therapy for the treatment of sepsis in humans. ^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[4]

Mobile phase: Acetonitrile- H₂O(potassium dihydrogen phosphate solution, pH=2.5)
=20:80 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 334 nm.

[Storage]

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

[References]

[1] Jiang W L, Tian J W, Fu F H, *et al. Eur. J. Pharmacol.*, 2010, 640(1-3):75-81.

[2] Hou J. *Phytomedicine International Journal of Phytotherapy & Phytopharmacology*, 2010, 17(9):635-9.

[3] Jiang W L, Xu Y, Zhang S P, *et al. Phytother. Res.*, 2012, 26(7):981-7.

[4] Wang Z, Deng R, Yang Y, *et al. Chinese Journal of Pharmaceutical Analysis*, 2011, 31(4):668-70.

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