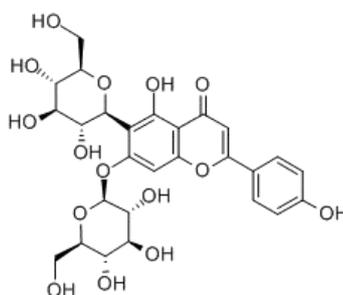


Saponarin Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Saponarin**Catalog No.:** CFN90134**Cas No.:** 20310-89-8**Purity:** > 95%**M.F:** C₂₇H₃₀O₁₅**M.W:** 594.52**Physical Description:** Yellow powder**Synonyms:**

4H-1-Benzopyran-4-one,6-b-D-glucopyranosyl-7-(b-D-glucopyranosyloxy)-5-hydroxy-2-(4-hydroxyphenyl)-;Saponarin(7Cl,8Cl);6-C-Glucosyl-7-O-glucosylapigenin;
7-O-Glucosylisovitexin;Isovitexin 7-glucoside;Isovitexin 7-b-D-glucopyranoside;
Isovitexin 7-b-D-glucoside;Petrocomoside.

**[Intended Use]**

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

[Source]

The seeds of *Vaccaria segetalis*.

[Biological Activity or Inhibitors]

Saponarin has antioxidant activity, is characterized as α -glucosidase inhibitor present in *Tinospora cordifolia*, it also has hypoglycemic activity.^[1]

Saponarin has protective effect against cocaine-induced oxidative stress and hepatotoxicity, it also shows in vitro and in vivo hepatoprotective and antioxidant activity against CCl₄-induced liver damage.^[2,3]

Saponarin exerts anti-inflammatory effects in LPS-induced RAW 264.7 macrophages via inhibition of NF- κ B, ERK and p38 signaling, thus, it may be a promising natural anti-inflammatory agent. ^[4]

Saponarin exerts slight antihypertensive activity in non-diabetic spontaneously hypertensive rats (SHR), however, such effect is not observed in streptozotocin-induced diabetic SHR (SHR-D), indicates that diabetes and hypertension in combination are more difficult to be modulated by saponarin.^[5]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[6]

Mobile phase: Acetonitrile-1% Acetic acid H₂O , gradient elution ;

Flow rate: 0.8 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 350 nm.

[Storage]

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

[References]

- [1] Sengupta S, Mukherjee A, Goswami R, *et al.* *J. Enzym. Inhib. Med. Ch.*, 2009, 24(3): 684-90.
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- [3] Simeonova R, Kondeva-Burdina M, Vitcheva V, *et al.* *Phytomed. Int. J. Phytother. Phytopharmacol.*, 2014, 21(2):148-54.
- [4] Seo K H, Mi J P, Ra J E, *et al.* *Electronic Supplementary Material (ESI) for Food & Function*. 2014, 5(11).
- [5] Simeonova R, Vitcheva V, Krasteva I, *et al.* *Phytomedicine*, 2016, 23(5):483-90.
- [6] Wu Q X, Chen J, Shi Y P. *J. Anal. Chem.*, 2010, 65(3):298-304.

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