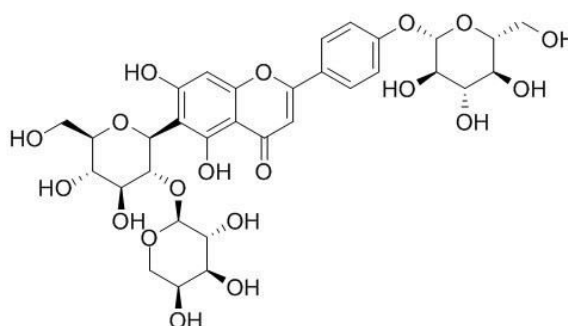


Vaccarin Datasheet

5th Edition (Revised in January, 2017)**[Product Information]****Name:** Vaccarin**Catalog No.:** CFN90131**Cas No.:** 53452-16-7**Purity:** >=98%**M.F:** C₁₆H₂₂O₁₀**M.W:** 726.64**Physical Description:** Yellow powder**Synonyms:** (1S)-1,5-Anhydro-2-O- α -L-arabinopyranosyl-1-{2-[4-(β -D-glucopyranosyloxy)phenyl]-5,7-dihydroxy-4-oxo-4H-chromen-6-yl}-D-glucitol.**[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]**

Vaccarin exhibits substantial free radical-scavenging activity with an IC₅₀ value of 0.48 mg/mL.^[1]

Vaccarin can attenuate the human EA.hy926 endothelial cell oxidative stress injury through inhibition of Notch signaling, it may be able to selectively protect vascular endothelium from dysfunction induced by H₂O₂.^[2]

Vaccarin promotes endothelial cell proliferation in association with neovascularization in vitro and in vivo. ^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[4]

Mobile phase: Methanol -0.3% Phosphoric acid in water, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 280 nm.

[Storage]

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

[References]

[1] Yuan X H, Fu L N, Gu C B, *et al. Sep. Purif. Technol.* 2014, 133(36):91-8.

[2] Xie F, Cai W, Liu Y, *et al. Int. J. Mol. Med.*, 2015, 35(1):135-42.

[3] Xie F, Feng L, Cai W, *et al. Mol. Med .Rep.* , 2015, 12(1):1131-6.

[4] Meng H, Chen Y, Qin W, *et al. Zhongguo Zhong Yao Za Zhi.*, 2010, 35(16):2072-4.

[Contact]

Address:

Email: info@chemfaces.com

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com