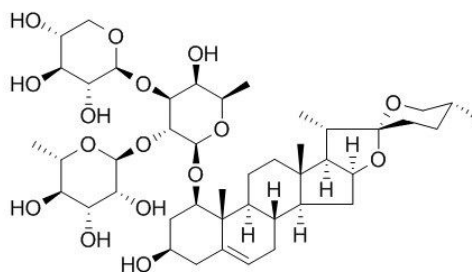


Ophiopogonin D Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Ophiopogonin D**Catalog No.:** CFN98156**Cas No.:** 41753-55-3**Purity:** >=98%**M.F:** C₄₄H₇₀O₁₆**M.W:** 855.02**Physical Description:** Powder**Synonyms:** beta-D-xylopyranosyl-6-deoxy-alpha-L-mannopyranosyl-(1->2)-6-deoxy-1-C-[(8xi,9xi,14xi,22xi,25R)-3-hydroxyspirost-5-en-1-yl]-beta-D-gulopyranoside.

[Intended Use]

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

[Source]

The roots of *Ophiopogon japonicus* .

[Biological Activity or Inhibitors]

Ophiopogonin D plays a protective role as an effective antioxidant in H₂O₂-induced endothelial injury, it can be therefore developed as a novel drug for the therapy of cardiovascular disorders.^[1]

Ophiopogonin D can attenuate doxorubicin-induced autophagic cell death by relieving mitochondrial damage in vitro and in vivo.^[2]

Ophiopogonin D and spicatoside A can increase mucin production and secretion, by directly acting on airway epithelial cells, they could be as expectorants in diverse inflammatory pulmonary diseases. ^[3]

Ophiopogonin D inhibits MCF-7 cell growth via the induction of cell cycle arrest at the G₂/M phase.^[4]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[5]

HPLC-ELSD:

Mobile phase: Acetonitrile- H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

Atomization temperature: 70 °C;

Evaporation temperature: 90 °C;

Flow rate of gas : 1.5 SLM.

[Storage]

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

[References]

[1] Qian J, Jiang F, Wang B, *et al.* *J. Ethnopharmacol.*, 2010, 128(2):438-45.

[2] Zhang Y Y, Meng C, Zhang X M, *et al.* *J. Pharmacol. Exp. Ther.* 2014, 352(1):166-74.

[3] Park S H, Lee H J, Ryu J, *et al.* *Phytomedicine.*, 2014, 21(2):172-6.

[4] Zang QQ, Zhang L, Gao N, *et al.* *J.Integr. Med.*, 2016, 14(1):51-9.

[5] Wu X R, Xu DS, Yi F, *et al.* *Chinese Traditional Patent Medicine*, 2006, 28(11):1638-40.

[Contact]

Address:

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

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com