

Vestitol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Vestitol

Catalog No.: CFN98483

Cas No.: 35878-41-2

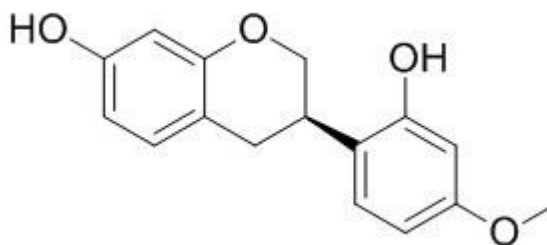
Purity: > 95%

M.F: C₁₆H₁₆O₄

M.W: 272.3

Physical Description: Powder

Synonyms: (3R)-3-(2-Hydroxy-4-methoxyphenyl)-3,4-dihydro-2H-chromen-7-ol.



[Intended Use]

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

[Source]

The herbs of *Lotus corniculatus* L.

[Biological Activity or Inhibitors]

Vestitol is a phytoalexin with insect feeding-deterrent activity.^[1]

Vestitol exerts a limited inhibitory effect on *S. hermonthica* germination, but it can significantly inhibit seedling growth, it also contributes, at least in part, to the host's defence mechanism and acts as a chemical barrier against the intrusion of the parasite.^[2]

Vestitol has anti-inflammatory and antimicrobial activities, it can inhibit neutrophil migration at a dose of 10 mg/kg, and shows MICs ranging from 25-50 to 50-100 ug/mL and MBCs ranging from 25-50 to 50-100 ug/mL.^[3]

Vestitol has antioxidant activity.^[4]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[5]

Mobile phase: Acetonitrile in 0.1% Formic acid - H₂O, 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] Russell G B, Sutherland O R W, Hutchins R F N, *et al. J. Chem. Ecol.*, 1978, 4(5):571-9.

[2] Ueda H, Sugimoto Y. *Biosci. Biotechnol. Biochem.*, 2010; 74(8):1662-7.

[3] Bueno-Silva B, Alencar S M, Koo H, *et al. J. Agric. Food Chem.*, 2013 May 15; 61(19): 4546-50.

[4] Wang W, Weng X, Cheng D. *Food Chem.*,2000,71(1):45-9.

[5] Masunaka A, Hyakumachi M, Takenaka S. *Microbes Environ.*,2011, 26(2):128-34.

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