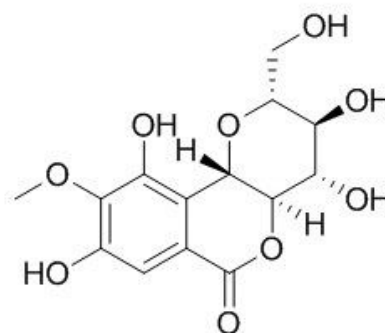


Bergenin Datasheet

5th Edition (Revised in January, 2017)**[Product Information]****Name:** Bergenin**Catalog No.:** CFN98724**Cas No.:** 477-90-7**Purity:** >= 98%**M.F:** C₁₄H₁₆O₉**M.W:** 328.3**Physical Description:** Powder

Synonyms: 3,4,8,10-Tetrahydroxy-2-(hydroxymethyl)-9-methoxy-3,4,4a,10b-tetrahydropyrano[3,2-c]isochromen-6(2H)-one; 3,4,4a,10b-Tetrahydro-3,4,8,10-tetrahydroxy-2-(hydroxymethyl)-9-methoxypyran[3,2-c][2]benzopyran-6(2H)-one.

**[Intended Use]**

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

[Source]

The herbs of *Bergenia purpurascens*.

[Biological Activity or Inhibitors]

Bergenin has immunomodulatory effect, it shows anti-arthritic activity through possible modulation of Th1/Th2 cytokine balance.^[1]

Bergenin shows hepatoprotective effects against galactosamine-intoxicated rat hepatocytes by inhibiting the release of glutamic pyruvic transaminase and sorbitol dehydrogenase as well as by increasing RNA synthesis.^[2]

Bergenin has antifungal activity against some plant pathogenic fungi. ^[3]

Bergenin has antioxidant potential, it has regenerative effect on pancreatic β cells, hence, it possesses significant antidiabetic, hypolipidemic and antioxidant activity in Type 2 diabetic rats.^[4]

Bergenin has consistent antinociceptive and anti-inflammatory properties, acting by the inhibition of IL-1 β and TNF- α production, and suggests its potential for the control of inflammatory pain.^[5]

Bergenin is a potential anti-HIV agent of traditional Asian medicine, it also has antimicrobial activity.^[6,7]

Bergenin has anticoagulant properties.^[8]

[Solvent]

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

[HPLC Method]^[9]

Mobile phase: Methanol-H₂O =22:78;

Flow rate: 0.8 ml/min;

Column temperature: 40 °C;

The wave length of determination: 220 nm.

[Storage]

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

[References]

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- [5] de Oliveira C M, Nonato F R, de Lima F O, *et al. J. Nat. Prod.*, 2011, 74(10):2062-8.
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- [7] Silva S L D. *Acta Amazonica*, 2009, 39(1):187-91.
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- [9] Shi Y B, Shi Y P, Meng Q G. *Biomedical Chromatography Bmc*, 2006, 20(10):1065-70.

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