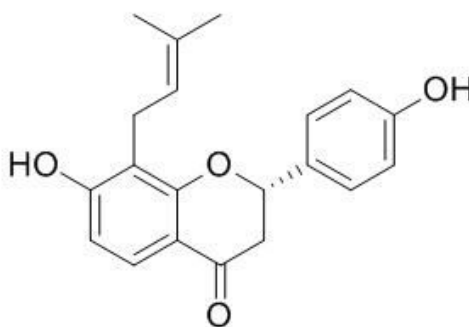


Isobavachin Datasheet

5th Edition (Revised in January, 2017)**[Product Information]****Name:** Isobavachin**Catalog No.:** CFN98400**Cas No.:** 31524-62-6**Purity:** >=98%**M.F:** C₂₀H₂₀O₄**M.W:** 324.4**Physical Description:** Powder

Synonyms:6-Chloro-1-phenyl-2,3,4,5-tetrahydro-1h-3-benzazepine-7,8-diol;1H-3-Benzazepine-7,8-diol,6-chloro-2,3,4,5-tetrahydro-1-phenyl;8-Dihydroxy-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepine;8-Prenylliquiritigenin.

[Intended Use]

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

[Source]The fruits of *Psoralea corylifolia* L.

[Biological Activity or Inhibitors]

Isobavachin can facilitate mouse embryonic stem cells differentiating into neuronal cells, the mechanism involved protein prenylation and, subsequently, phos-ERK activation and the phos-p38 off pathway.^[1]

Isobavachin possesses estrogen-like activity in MCF-7/BOS cells, it can significantly stimulate the proliferation of MCF-7/BOS cells in a dose-dependent manner.^[2]

Isobavachin has cytotoxic effects on H4IIE hepatoma and metabolically poorly active C6 glioma cells.^[3]

Isobavachin and bavachin can stimulate osteoblasts proliferation and differentiation.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Acetonitrile-H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30°C;

The wave length of determination: 275 nm.

[Storage]

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

[References]

[1] Wang D Y, Hu Y Z, Kong S S, *et al. Acta Pharmacol. Sin.*, 2011 Apr; 32(4):425-32.

[2] Dong X, Fan Y, Yu L, *et al. Arch. Pharm. (Weinheim)*, 2007 Jul; 340(7):372-6.

[3] Wätjen W, Weber N, Lou Y J, *et al. Food Chem. Toxicol.*, 2007 Jan; 45(1):119-24.

[4] Li W D, Yan C P, Wu Y, *et al. Phytomedicine*, 2014 Mar 15; 21(4):400-5.

[5] Yin F Z, Li L, Lu T L, *et al. Indian J. Pharm. Sci.*, 2015 Nov-Dec; 77(6):715-22.

[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