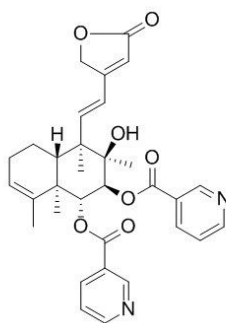


Scutebarbatine A Datasheet

5th Edition (Revised in January, 2017)**[Product Information]****Name:** Scutebarbatine A**Catalog No.:** CFN99832**Cas No.:** 176520-13-1**Purity:** > 95%**M.F:** C₃₂H₃₄N₂O₇**M.W:** 558.6**Physical Description:** Powder**Synonyms:** (1R,2S,3R,4R,4aS,8aR)-3-Hydroxy-3,4,8,8a-tetramethyl-4-[(E)-2-(5-oxo-2,5-dihydro-3-furanyl)vinyl]-1,2,3,4,4a,5,6,8a-octahydronaphthalene-1,2-diyl dinicotinate.**[Intended Use]**

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

[Source]The herbs of *Scutellaria barbata* D. Don.

[Biological Activity or Inhibitors]

Scutebarbatine A shows significant antitumor effects on A549 cells in vivo and in vitro via mitochondria-mediated apoptosis by up-regulating expressions of caspase-3 and 9, and down-regulating Bcl-2.^[1]

Scutebarbatine A and barbatine A show a significant ability to protect cells against H₂O₂ with ED₅₀ values of 5.0 and 16.8 uM, respectively.^[2]

Scutebarbatines may inhibit tumor growth, which is related to the stimulation of the immune response. ^[3]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile-H₂O, gradient elution ;

Flow rate: 0.8 ml/min;

Column temperature: 25 °C;

The wave length of determination: 264 nm.

[Storage]

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

[References]

[1] Yang X K, Xu M Y, Xu G S, *et al. Molecules*, 2014, 19(7):8740-51.

[2] Nguyen V H, Pham V C, Nguyen T T H, *et al. Eur. J. Org. Chem.*, 2009, 2009(33): 5810-5.

[3] Tao G, Wang C F, Yuan J R, *et al. Evid. Based Complement. Alternat. Med.*, 2015; 2015: 630760.

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