

Schisandrin A Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Schisandrin A

Catalog No.: CFN99012

Cas No.: 7432-28-2

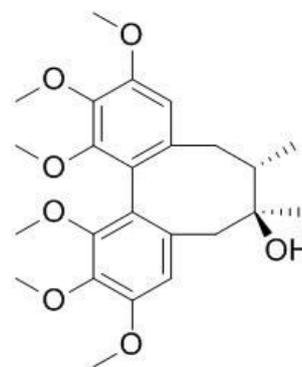
Purity: > 98%

M.F: C₂₄H₃₂O₇

M.W: 432.5

Physical Description: Oil

Synonyms: 5,6,7,8-Tetrahydro-6,7-dimethyl-1,2,3,10,11,12-hexamethoxydibenzo[a,c]cycloocten-6-ol.



[Intended Use]

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

[Source]

The fruits of *Schisandra chinensis* (Turcz.) Baill.

[Biological Activity or Inhibitors]

Schisandrin A and schisandrin B are active components of Schisandrae Fructus, has anti-inflammatory action, may act differentially on activating GST/ depleting cellular GSH and inducing an antioxidant response. [1]

Schisandrin A and Schisandrin B inhibit CYP3A activity by a mixed noncompetitive and complete inhibition, with IC(50) values of 6.60 and 5.51 microM and K(i) values of 5.83 and 4.24 microM, respectively.[2]

Schisandrin A is an MDR-reversing agent in chemotherapy for osteosarcoma, the mechanism is associated with reducing the IC50 of DOX , and increasing cleaved-PARP and cleaved-Caspase-7 levels in MG-63 cells transfected with the MDR1 expression vector.[3]

Schisandrin A and B induce OATP1B1 expression and increase its transporter activity in HepG2 cells.. [4]

Schisandrin A, B, and C have certain protective effects on the oxidative damage of HaCat cells induced by H2O2. [5]

[Solvent]

Chloroform, Dichloromethane, DMSO, Acetone, etc.

[HPLC Method]^[6]

Mobile phase: Methanol : H2O=75:25;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 254 nm.

[Storage]

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

[References]

- [1] Kuan L P, Shan W H, Chen J, *et al. Plos One*, 2016, 11(5).
- [2] Li W L, Xin H W, Su M W, *et al. Method Find in Exp. Clin.*, 2010, 32(3):163-9.
- [3] Xia Y Z, Yang L, Wang Z D, *et al. Rsc. Adv.*, 2015, 5(18):13972-84.
- [4] Guo C X, Deng S, Yin J Y, *et al. Pharmazie*, 2015, 70(1):29-32.
- [5] Wei H. *Journal of Anhui Agricultural Sciences*, 2013, 41(3):1047-9.
- [6] Xu X M, Li J P, Yan C, *et al. Journal of Northeast Agricultural University*, 2007, 14(4): 323-6.

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