

# Schizandrin B Datasheet

4<sup>th</sup> Edition (Revised in July, 2016)

## [ Product Information ]

**Name:** Schizandrin B

**Catalog No.:** CFN99923

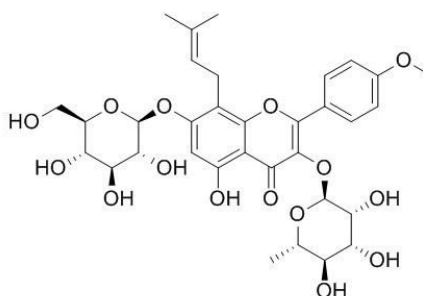
**Cas No.:** 61281-37-6

**Purity:** ≥98%

**M.F:** C<sub>23</sub>H<sub>28</sub>O<sub>6</sub>

**M.W:** 400.47

**Physical Description:** Powder



**Synonyms:** gamma-Schizandrin; Wuweizisu B; 1,2,3,13-tetramethoxy-6,7-dimethyl-5,6,7,8-tetrahydrobenzo[3',4']cycloocta[1',2':4,5]benzo[1,2-d][1,3]dioxole; (6R,7S)-1,2,3,13-tetramethoxy-6,7-dimethyl-5,6,7,8-tetrahydrobenzo[3',4']cycloocta[1',2':4,5]benzo[1,2-d][1,3]dioxole.

## [ Intended Use ]

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

## [ Source ]

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

## **[ Biological Activity or Inhibitors ]**

Schizandrin (Schi) and schizandrin B (Schi B), major phytochemicals from *Schisandra chinensis* (Turcz.) Baill. fruits, can enhance cell survival via reducing apoptosis rate on HK-2 cells along four processes that could help alleviate CisPt toxicity, thus, they present promising activities for future development of protective agents against CisPt nephrotoxicity. <sup>[1]</sup>

Schizandrin B possesses antioxidant activity, it can decrease the production of MDA and the release of GPT and LDH, and to increase hepatocyte viability as well as maintaining the integrity of the hepatocyte membrane surface. <sup>[2]</sup>

Schizandrin B attenuates the UVB-induced toxicity of HaCaT by inhibiting apoptotic gene expression, it plays a role in anti-photoaging. <sup>[3]</sup>

Schisandrin B can partially inhibit H<sub>2</sub>O<sub>2</sub>-induced L02 cell apoptosis possibly by affecting the FAS-FADD-caspase-8 pathway. <sup>[4]</sup>

Combination of schizandrin B and paclitaxel (PTX) can enhance anti-tumor effects and relieve side effects of PTX on rats with mammary carcinoma. <sup>[5]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ] <sup>[6]</sup>**

Mobile phase: Methanol- H<sub>2</sub>O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 220 nm.

## **[ Storage ]**

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

## **[ References ]**

- [1] Bunel V, Antoine M H, Nortier J, *et al. J. Appl. Toxicol.*, 2014, 34(12):1311-9.
- [2] Zhang T M, Wang B E, Liu G T. *Acta Pharmacol. Sin.*, 1989, 10(4):353-6.
- [3] Bo C, Cong N, Tao L U, *et al. Chinese Pharmacological Bulletin*, 2014, 30(4):523-7.
- [4] Cai J, Huang Q. *Journal of Southern Medical University*, 2012, 32(4):583-56.
- [5] Yan M H, Sun X M, Cheng J R, *et al. J. Pract. Med.*, 2012, 28(15):2506-9.
- [6] Tang Q, Wang Y, Meng Q, *et al. Drug Standards of China*, 2012, 13(4):258-61.

## **[ Contact ]**

**Address:**

S5-3 Building, No. 111, Dongfeng Rd.,  
Wuhan Economic and Technological Development Zone,  
Wuhan, Hubei 430056,  
China

**Email:** [info@chemfaces.com](mailto:info@chemfaces.com)

**Tel:** +86-27-84237783

**Fax:** +86-27-84254680

**Web:** [www.chemfaces.com](http://www.chemfaces.com)

**Tech Support:** [service@chemfaces.com](mailto:service@chemfaces.com)