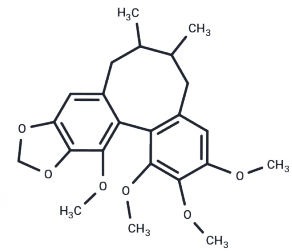


Schisandrin B

Chemical Properties

CAS No. :	61281-37-6
Formula:	C ₂₃ H ₂₈ O ₆
Molecular Weight:	400.46
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Schisandrin B (Schisandrin B (Sch B)) has an antioxidant effect on rodent liver and heart.
Targets(IC50)	ATM/ATR, Reactive Oxygen Species, Autophagy, ROS
In vivo	Schisandrin B can protect liver against toxicant challenge. Schisandrin B pretreatment protects against carbon tetrachloride- or TNF α -induced liver damage in mice. [5] [6] [7] Further studies demonstrate the protective effect of schisandrin B on free radical-induced damage in various vital organs, including the heart, liver, kidney, brain and skin. [8] Moreover, schisandrin B is found to attenuate cancer invasion and metastasis via inhibiting epithelial mesenchymal transition at the step of local invasion. [9]

Solubility Information

Solubility	DMSO: 100 mg/mL (249.71 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 10 mg/mL (24.97 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.99 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4971 mL	12.4856 mL	24.9713 mL
5 mM	0.4994 mL	2.4971 mL	4.9943 mL
10 mM	0.2497 mL	1.2486 mL	2.4971 mL
50 mM	0.0499 mL	0.2497 mL	0.4994 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Wu YF, et al. World J Gastroenterol, 2004, 10(20), 2944-2948.
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- Qiangrong P, et al. Biochem Biophys Res Commun, 2005, 335(2), 406-411.
- Wan CK, et al. Biochem Pharmacol, 2006, 72(7), 824-837.
- Ip SP, et al. Planta Med, 1995, 61(5), 398-401.

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