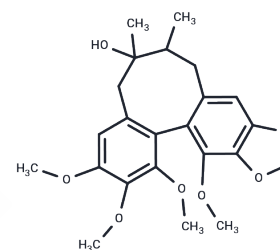


Schisandrol B

Chemical Properties

CAS No. :	58546-54-6
Formula:	C ₂₃ H ₂₈ O ₇
Molecular Weight:	416.46
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	1. Schisandrol B (Besigomisin) may exert neuroprotective effects by attenuating the microglia-mediated neuroinflammatory response via inhibiting the TLR4-mediated NF-κB and MAPKs signaling pathways. 2. Schisandrol B has anti-inflammatory property, potentially result from the inhibition of COX-2, iNOS, IL-6, TNF-α and NO through the down-regulation of RIP2 and NF-κB activation. 3. Schisandrol B induces marked protective effects against hepatic and renal injury induced by CCl ₄ exposure through differential regulation of the MAPK signal transduction pathway. 4. Schisandrol B significantly inhibits cell proliferation in a dose-dependent manner, due to cell cycle arrest in the G1 phase with the downregulation of cyclin D1 expression and Retinoblastoma (RB) phosphorylation.
Targets(IC50)	Reactive Oxygen Species, Autophagy, Cytochromes P450, ROS

Solubility Information

Solubility	DMSO: 245 mg/mL (588.29 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: 10 mg/mL (24.01 mM), Solution. 10% DMSO+90% Saline: < 10 mg/mL (24.01 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <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	2.4012 mL	12.006 mL	24.0119 mL
5 mM	0.4802 mL	2.4012 mL	4.8024 mL
10 mM	0.2401 mL	1.2006 mL	2.4012 mL
50 mM	0.048 mL	0.2401 mL	0.4802 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

Hwang, Dae. Protective effects of gomisin A isolated from *Schisandra chinensis* against CCl₄-induced hepatic and renal injury[J]. *International Journal of Molecular Medicine*, 2013, 31(4):888--898.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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