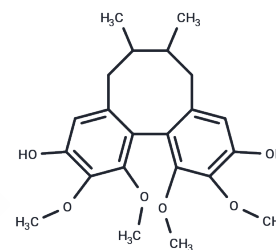


Gomisin J

Chemical Properties

CAS No. :	66280-25-9
Formula:	C ₂₂ H ₂₈ O ₆
Molecular Weight:	388.45
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	Gomisin J is a natural product and have vasodilatory activity. Gomisin J suppresses lipid accumulation by regulating the expression of lipogenic and lipolytic enzymes and inflammatory molecules through activation of AMPK, LKB1 and Ca ²⁺ /calmodulin-dependent protein kinase II and inhibition of fetuin-A in HepG2 cells.
Targets(IC50)	CaMK,Calcium Channel,NF-κB,Nrf2,NO Synthase,AMPK
In vitro	Gomisin J attenuated lipid accumulation in OA-induced HepG2 cells. It also suppressed the expression of lipogenic enzymes and inflammatory mediators and increased the expression of lipolytic enzymes in OA-induced HepG2 cells. Furthermore, the use of specific inhibitors and fetuin-A siRNA and liver kinase B1 (LKB1) siRNA transfected cells demonstrated that gomisin J regulated lipogenesis and lipolysis via inhibition of fetuin-A and activation of an AMP-activated protein kinase (AMPK)-dependent pathway in HepG2 cells[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (128.72 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 (5.15 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	2.5743 mL	12.8717 mL	25.7433 mL
5 mM	0.5149 mL	2.5743 mL	5.1487 mL
10 mM	0.2574 mL	1.2872 mL	2.5743 mL
50 mM	0.0515 mL	0.2574 mL	0.5149 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

Kim M, et al. Gomisin J Inhibits Oleic Acid-Induced Hepatic Lipogenesis by Activation of the AMPK-Dependent Pathway and Inhibition of the Hepatokine Fetuin-A in HepG2 Cells. *J Agric Food Chem.* 2015 Nov 11;63(44):9729-39.

Ye BH, et al. Preventive effect of gomisin J from *Schisandra chinensis* on angiotensin II-induced hypertension via an increased nitric oxide bioavailability. *Hypertens Res.* 2015 Mar;38(3):169-77.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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