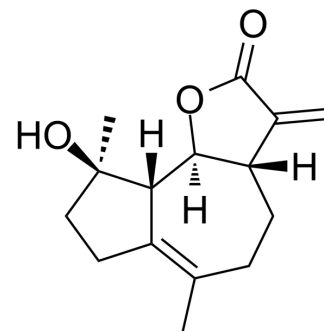


Micheliolide

Cat. No.:	HY-N0847		
CAS No.:	68370-47-8		
Molecular Formula:	C ₁₅ H ₂₀ O ₃		
Molecular Weight:	248.32		
Target:	NF-κB		
Pathway:	NF-κB		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (201.35 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.0271 mL	20.1353 mL	40.2706 mL
	5 mM	0.8054 mL	4.0271 mL	8.0541 mL
	10 mM	0.4027 mL	2.0135 mL	4.0271 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (10.07 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (10.07 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (10.07 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Micheliolide could effectively attenuate the high glucose-stimulated activation of NF-κB, the degradation of IκBα, and the expression of MCP-1, TGF-β1 and FN in rat mesangial cells (MCs).

CUSTOMER VALIDATION

-
- Carcinogenesis. 2020 Jul 10;41(6):723-733.
 - J Biol Regul Homeost Agents. 2023 Jul 20, 37(7): 3911-3919.
 - bioRxiv. 2023 Jun 3.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Jia QQ, et al. Sesquiterpene lactones and their derivatives inhibit high glucose-induced NF- κ B activation and MCP-1 and TGF- β 1 expression in rat mesangial cells. Molecules. 2013 Oct 21;18(10):13061-77.

Caution: Product has not been fully validated for medical applications. For research use only.

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