Echinocystic acid

Cat. No.:	HY-N0271		
CAS No.:	510-30-5		
Molecular Formula:	C ₃₀ H ₄₈ O ₄		
Molecular Weight:	472.7		
Target:	Reactive Ox	ygen Spe	cies; Apoptosis
Pathway:	Immunolog	y/Inflamn	nation; Metabolic Enzyme/Protease; NF-κB; Apoptosis
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 (10	. (105.78 mM; Need ultrasonic)			
		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.1155 mL	10.5775 mL	21.1551 mL
		5 mM	0.4231 mL	2.1155 mL	4.2310 mL
		10 mM	0.2116 mL	1.0578 mL	2.1155 mL
	Please refer to the sol	ubility information to select the app	propriate solvent.		
In Vivo	1. Add each solvent o Solubility: ≥ 2.75 m	one by one: 10% DMSO >> 90% cor ng/mL (5.82 mM); Clear solution	n oil		

Echinocystic acid is a na	tural pentacyclic triterpene with potent antioxidant, anti-inflammatory and analgesic activities $^{[1][2]}$.
Echinocystic acid (2.5-10 Echinocystic acid supproversion regulated the expression MCE has not independen Western Blot Analysis ^[1]	D μM; pretreated 1 h) inhibits IL-1β-induced NF-κB and MAPK activation ^[1] . esses IL-1β-induced MMP-13, NO, and PGE2 production in a dose-dependent manner. IL-1β up- n of COX-2 and iNOS, and the increase is inhibited by Echinocystic acid ^[1] . ntly confirmed the accuracy of these methods. They are for reference only.
Cell Line:	Chondrocytes
Concentration:	2.5 μΜ, 5 μΜ, 10 μΜ
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Product Data Sheet

Incubation Time: Pretreated 1 h and then stimulated with IL-1 β for 30 min.	
Result:	IL-1 β -induced NF- κ B and MAPK activation were inhibited.
Echinocystic acid (5 mg reserpine-induced pain MCE has not independe	/kg intragastrically daily for 5 days) shows anti-depression activities in the mouse model of -depression dyad ^[2] . ently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Male adult C57BL/6 mice (8-10 week old; 18 to 22 g) injected weith Reserpine $^{[2]}$
Dosage:	5 mg/kg
Administration:	Intragastrically; daily for 5 days
Result:	Attenuated reserpine-induced pain/depression dyad partially through regulating the

CUSTOMER VALIDATION

• SSRN. 2024 Feb 23.

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REFERENCES

[1]. Ma Z et al. Echinocystic Acid Inhibits IL-1β-Induced COX-2 and iNOS Expression in Human Osteoarthritis Chondrocytes. Inflammation. 2016 Apr;39(2):543-9.

[2]. Li S et al. Echinocystic acid reduces reserpine-induced pain/depression dyad in mice. Metab Brain Dis. 2016 Apr;31(2):455-63.

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

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