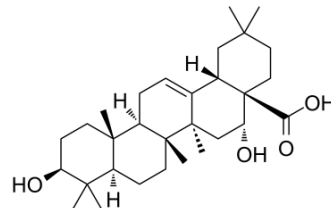


Echinocystic acid

Cat. No.:	HY-N0271		
CAS No.:	510-30-5		
Molecular Formula:	C ₃₀ H ₄₈ O ₄		
Molecular Weight:	472.7		
Target:	Reactive Oxygen Species; Apoptosis		
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (211.55 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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 solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.75 mg/mL (5.82 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Echinocystic acid a pentacyclic triterpene isolated from the fruits of *Gleditsia sinensis* Lam, has potent antioxidant, anti-inflammatory and anti-tumor properties. In vitro: Echinocystic acid (EA) inhibit the formation of osteoclast. EA inhibit RANKL-induced NF-κB activation and ERK phosphorylation in BMMs. [1] EA inhibit IL-1β-induced inflammation in chondrocytes. [2] In vivo: Echinocystic acid reduces reserpine-induced pain/depression dyad in mice. [3]

REFERENCES

[1]. Yang JH et al. Echinocystic acid inhibits RANKL-induced osteoclastogenesis by regulating NF-κB and ERK signaling pathways. *Biochem Biophys Res Commun*. 2016 Sep 2;477(4):673-7.

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

[3]. 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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