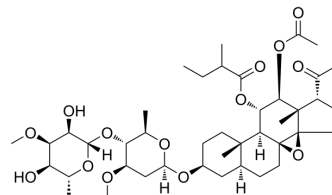


Tenacissoside H

Cat. No.:	HY-N0670
CAS No.:	191729-45-0
Molecular Formula:	C ₄₂ H ₆₆ O ₁₄
Molecular Weight:	794.97
Target:	Others
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (125.79 mM; Need ultrasonic)				
	Preparing Stock Solutions	<div>Mass Solvent Concentration</div>	1 mg	5 mg	10 mg
		1 mM	1.2579 mL	6.2895 mL	12.5791 mL
		5 mM	0.2516 mL	1.2579 mL	2.5158 mL
		10 mM	0.1258 mL	0.6290 mL	1.2579 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 5 mg/mL (6.29 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.14 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.14 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Tenacissoside H is a Chinese medicine monomer extracted, isolated from <i>Caulis Marsdeniae Tenacissimae</i> . IC ₅₀ value: Target: In vitro: TDH significantly inhibited cells proliferation in a time-and-dose-dependent manner. TDH arrested the cell cycle in S phase and significantly inhibited PI3K and NF-κB mRNA expression, compared with blank controlled group (P < 0.05). [1] In vivo: TDH strongly inhibits tumor growth and volume. PCNA expression was significantly decreased after treatment of TDH. TDH downregulated proteins expression in PI3K/Akt-NF-κB transduction cascade (P < 0.05). [1]
-------------	--

CUSTOMER VALIDATION

-
- Clin Exp Pharmacol Physiol. 2020 Aug 16.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Jia YS, et al. Antitumor Activity of Tenacissoside H on Esophageal Cancer through Arresting Cell Cycle and Regulating PI3K/Akt-NF-κB Transduction Cascade. Evid Based Complement Alternat Med. 2015;2015:464937.

[2]. Yong-Sen Jia, et al. Antitumor Activity of Tenacissoside H on Esophageal Cancer through Arresting Cell Cycle and Regulating PI3K/Akt-NF-κB Transduction Cascade. Evid Based Complement Alternat Med. 2015;2015:464937.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA