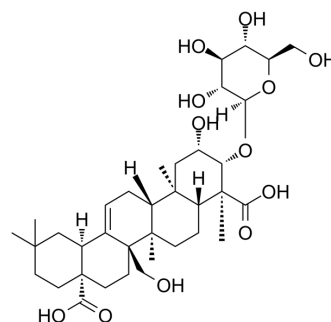


Tenuifolin

Cat. No.:	HY-N0702
CAS No.:	20183-47-5
Molecular Formula:	C ₃₆ H ₅₆ O ₁₂
Molecular Weight:	680.82
Target:	Beta-secretase; Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (146.88 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	
				5 mg	
				10 mg	
				10 mM	
			1 mg	5 mg	10 mg
	1 mM		1.4688 mL	7.3441 mL	14.6882 mL
	5 mM		0.2938 mL	1.4688 mL	2.9376 mL
	10 mM		0.1469 mL	0.7344 mL	1.4688 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: ≥ 2.5 mg/mL (3.67 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.67 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.67 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Tenuifolin is a triterpene isolated from <i>Polygala tenuifolia</i> Willd, has neuroprotective effects. Tenuifolin reduces Aβ secretion by inhibiting β-secretase. Tenuifolin improves learning and memory in aged mice by decreasing AChE activity and has the potential for Alzheimer's disease (AD) treatment ^[1] .
IC ₅₀ & Target	IC50: β-secretase; AChE ^[1]

REFERENCES

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