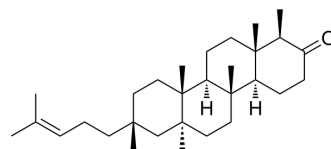


## Shionone

Cat. No.:	HY-N0829
CAS No.:	10376-48-4
Molecular Formula:	C <sub>30</sub> H <sub>50</sub> O
Molecular Weight:	426.72
Target:	Others
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	Ethanol : 2 mg/mL (4.69 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.3435 mL	11.7173 mL	23.4346 mL
		5 mM	---	---	---
		10 mM	---	---	---
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 0.77 mg/mL (1.80 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline) Solubility: 0.77 mg/mL (1.80 mM); Suspended solution; Need ultrasonic				
	3. Add each solvent one by one: 10% EtOH >> 90% corn oil Solubility: ≥ 0.77 mg/mL (1.80 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Shionone is the major triterpenoid isolated from <i>Aster tataricus</i> , has anti-tussive, anti-inflammatory activities <sup>[1][2]</sup> . Shionone possesses a unique six-membered tetracyclic skeleton and 3-oxo-4-monomethyl structure <sup>[1]</sup> .	
In Vivo	Shionone (orally administration; 80 mg/kg; 3 days; once daily) shows the trend of enhancing sputum secreting, but has no effect on ammonia-induced cough and reduces xylene-induced ear edema <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	ICR male mice <sup>[1]</sup>

Dosage:	80 mg/kg
Administration:	Orally administration; 3 days; once daily
Result:	Reduced the ear edema for 11.3% by use shionone.

## REFERENCES

- [1]. Sawai S, et al. Molecular characterization of an oxidosqualene cyclase that yields shionone, a unique tetracyclic triterpene ketone of *Aster tataricus*. *FEBS Lett.* 2011 Apr 6;585(7):1031-6.
- [2]. Yu P, et al. Expectorant, antitussive, anti-inflammatory activities and compositional analysis of *Aster tataricus*. *J Ethnopharmacol.* 2015 Apr 22;164:328-33.
- [3]. Yu P, et al. Expectorant, antitussive, anti-inflammatory activities and compositional analysis of *Aster tataricus*. *J Ethnopharmacol.* 2015 Apr 22;164:328-33.

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

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