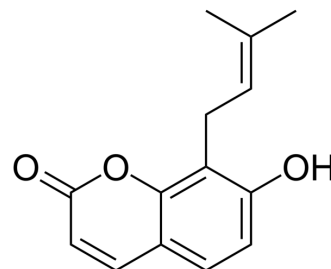


Osthenol

Cat. No.:	HY-N2554	
CAS No.:	484-14-0	
Molecular Formula:	C ₁₄ H ₁₄ O ₃	
Molecular Weight:	230.26	
Target:	Monoamine Oxidase	
Pathway:	Neuronal Signaling	
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 (434.29 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.3429 mL	21.7146 mL	43.4292 mL
		5 mM	0.8686 mL	4.3429 mL	8.6858 mL
10 mM		0.4343 mL	2.1715 mL	4.3429 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (10.86 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.86 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.86 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Osthenol (Ostenol), a prenylated coumarin isolated from the dried roots of <i>Angelica pubescens</i> , is selective, reversible, and competitive human monoamine oxidase-A (hMAO-A) inhibitor ($K_i=0.26 \mu\text{M}$). Osthenol potently inhibits recombinant hMAO-A with an IC_{50} of $0.74 \mu\text{M}$ and shows a high selectivity index for hMAO-A versus hMAO-B ^[1] .	
IC₅₀ & Target	hMAO-A 0.26 μM (K _i)	hMAO-A 0.74 μM (IC ₅₀)

REFERENCES

- [1]. Liao ZC, et al. Zhongguo Zhong Yao Za Zhi. 2017;42(15):2999-3003.
- [2]. Baek SC, et al. Osthenol, a prenylated coumarin, as a monoamine oxidase A inhibitor with high selectivity. Bioorg Med Chem Lett. 2019;29(6):839-843.
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Caution: Product has not been fully validated for medical applications. For research use only.

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