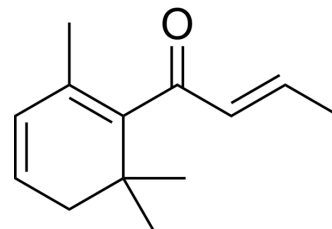


## Damascenone

Cat. No.:	HY-N2543
CAS No.:	23696-85-7
Molecular Formula:	C <sub>13</sub> H <sub>18</sub> O
Molecular Weight:	190.28
Target:	NF-κB; Endogenous Metabolite
Pathway:	NF-κB; Metabolic Enzyme/Protease
Storage:	4°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 (525.54 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	5.2554 mL	26.2771 mL	52.5541 mL
				5 mM	1.0511 mL	5.2554 mL	10.5108 mL
				10 mM	0.5255 mL	2.6277 mL	5.2554 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 (13.14 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (13.14 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (13.14 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Damascenone ((E/Z)-Damascenone) is an active compound of <i>Epipremnum pinnatum</i> with anti-inflammatory activity <sup>[1]</sup> . Damascenone is a mixture complex of E-isomer-Damascenone and Z-isomer Damascenone.
IC <sub>50</sub> & Target	Human Endogenous Metabolite
In Vitro	β-Damascenone also inhibits the upregulation of inflammatory proteins as demonstrated by immune assays for cell surface E-selectin and secreted TNF-α <sup>[1]</sup> . β-Damascenone inhibits NF-κB signaling pathway in vitro in human cellular systems that has been activated with different inflammatory stimuli <sup>[1]</sup> .

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. San-Po Pan, et al. C13 Megastigmane Derivatives From *Epipremnum pinnatum*:  $\beta$ -Damascenone Inhibits the Expression of Pro-Inflammatory Cytokines and Leukocyte Adhesion Molecules as Well as NF- $\kappa$ B Signaling

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

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