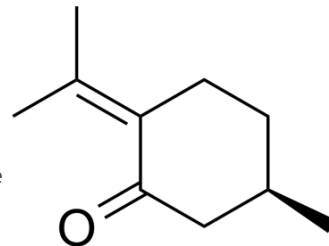


Pulegone

Cat. No.:	HY-N1500		
CAS No.:	89-82-7		
Molecular Formula:	C ₁₀ H ₁₆ O		
Molecular Weight:	152.23		
Target:	TRP Channel; Endogenous Metabolite		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Metabolic Enzyme/Protease		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 270 mg/mL (1773.63 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	6.5690 mL	32.8450 mL	65.6901 mL
	5 mM	1.3138 mL	6.5690 mL	13.1380 mL
	10 mM	0.6569 mL	3.2845 mL	6.5690 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.25 mg/mL (14.78 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.25 mg/mL (14.78 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.25 mg/mL (14.78 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Pulegone, the major chemical constituent of *Calamintha nepeta* (L.) Savi essential oil which is an aromatic herb with a mint-oregano flavor, is one of avian repellents^[1]. The molecular target for the repellent action of Pulegone in avian species is nociceptive TRP ankyrin 1 (TRPA1). Pulegone stimulates both TRPM8 and TRPA1 channel in chicken sensory neurons and suppresses the former but not the latter at high concentrations^[2].

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

- [1]. Božović M, et al. Calamintha nepeta (L.) Savi and its Main Essential Oil Constituent Pulegone: Biological Activities and Chemistry. *Molecules*. 2017 Feb 14;22(2).
- [2]. Majikina A, et al. Involvement of nociceptive transient receptor potential channels in repellent action of pulegone. *Biochem Pharmacol*. 2018 May;151:89-95.
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Caution: Product has not been fully validated for medical applications. For research use only.

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