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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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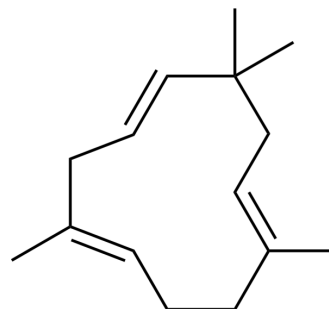
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α -Humulene

Cat. No.:	HY-N6968
CAS No.:	6753-98-6
Molecular Formula:	C ₁₅ H ₂₄
Molecular Weight:	204.35
Target:	NO Synthase; COX
Pathway:	Immunology/Inflammation
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 33.33 mg/mL (163.10 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.8936 mL	24.4678 mL	48.9356 mL
		5 mM	0.9787 mL	4.8936 mL	9.7871 mL
		10 mM	0.4894 mL	2.4468 mL	4.8936 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 (12.23 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 (12.23 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: \geq 2.5 mg/mL (12.23 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	α -Humulene is a main constituent of <i>Tanacetum vulgare</i> L. (Asteraceae) essential oil with anti-inflammation (IC ₅₀ =15 \pm 2 μ g/mL). α -Humulene inhibits COX-2 and iNOS expression ^[1] .	
IC ₅₀ & Target	COX-2	iNOS
In Vitro	The cytotoxicity of α -Humulene against human lung carcinoma A549, colon adenocarcinoma DLD-1, skin fibroblasts WS1 cell lines is 28 \pm 1, 43 \pm 3, and 24 \pm 3 μ g/mL, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Côté H, et al. Anti-Inflammatory, Antioxidant, Antibiotic, and Cytotoxic Activities of Tanacetum vulgare L. Essential Oil and Its Constituents. Medicines (Basel). 2017 May 25;4(2). pii: E34.

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

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