



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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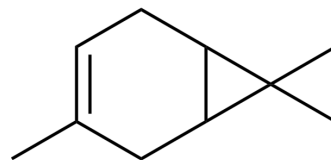
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3-Carene

Cat. No.:	HY-N6663
CAS No.:	13466-78-9
Molecular Formula:	C ₁₀ H ₁₆
Molecular Weight:	136.23
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	-20°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 (734.05 mM; Need ultrasonic)				
	Preparing Stock Solutions	Mass Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	7.3405 mL	36.7026 mL	73.4053 mL
		5 mM	1.4681 mL	7.3405 mL	14.6811 mL
		10 mM	0.7341 mL	3.6703 mL	7.3405 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)				
	Solubility: ≥ 2.5 mg/mL (18.35 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	3-Carene is a bicyclic monoterpene in essential oils extracted from pine trees. 3-Carene inhibits nociceptive stimulus-induced inflammatory infiltrates and COX-2 overexpression, and with antinociceptive effect. 3-Carene stimulates the activity and expression of alkaline phosphatase that is an early phase marker of osteoblastic differentiation ^{[1][2]} .
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REFERENCES

- [1]. Huang XL, et al. Anti-inflammatory and antinociceptive effects of active ingredients in the essential oils from *Gynura procumbens*, a traditional medicine and a new and popular food material. *J Ethnopharmacol.* 2019 Jul 15;239:111916.
- [2]. Jeong JG, et al. Low concentration of 3-carene stimulates the differentiation of mouse osteoblastic MC3T3-E1 subclone 4 cells. *Phytother Res.* 2008 Jan;22(1):18-22.

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

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