



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

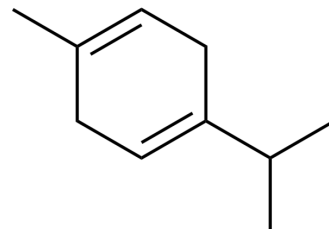
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

γ-Terpinene

Cat. No.:	HY-W020183		
CAS No.:	99-85-4		
Molecular Formula:	C ₁₀ H ₁₆		
Molecular Weight:	136.23		
Target:	Others		
Pathway:	Others		
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

H₂O : 100 mg/mL (734.05 mM; Need ultrasonic)
 DMSO : 100 mg/mL (734.05 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	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

- Add each solvent one by one: PBS
Solubility: 10 mg/mL (73.41 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (18.35 mM); Clear solution
- 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
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (18.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

γ-Terpinene, a monoterpene, is an orally active antioxidant compound which can scavenge radicals directly. γ-Terpinene has potent antinociception activity^[1].

In Vivo

γ-Terpinene (γ-TPN; 12.5, 25 mg/kg; p.o.; single dose) significantly reduces the licking time of the stimulated paw in both

phases of the test in male Swiss mice (20-30 g)^[1].
γ-Terpinene given either systemically (p.o.; 1.56, 3.125, and 6.25 mg/kg) or centrally (i.t or i.c.v; 10 and 20 µg/site) causes significant inhibition of glutamate-induced nociception in mice^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Flávia Franceli de Brito Passos, et al. Involvement of Cholinergic and Opioid System in γ-Terpinene-Mediated Antinociception. *Evid Based Complement Alternat Med.* 2015;2015:829414.
- [2]. Guo-Xiang Li, et al. Unusual antioxidant behavior of alpha- and gamma-terpinene in protecting methyl linoleate, DNA, and erythrocyte. *J Agric Food Chem.* 2009 May 13;57(9):3943-8.
-

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA