



# 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

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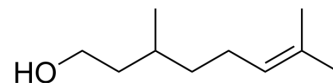
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## Citronellol

Cat. No.:	HY-W010201
CAS No.:	106-22-9
Molecular Formula:	C <sub>10</sub> H <sub>20</sub> O
Molecular Weight:	156.27
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
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 (639.92 mM)  
 H<sub>2</sub>O : 1 mg/mL (6.40 mM); ultrasonic and warming and heat to 60°C  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		6.3992 mL	31.9959 mL	63.9918 mL
	5 mM		1.2798 mL	6.3992 mL	12.7984 mL
	10 mM		0.6399 mL	3.1996 mL	6.3992 mL

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

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 33.33 mg/mL (213.28 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 (16.00 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (16.00 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (16.00 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Citronellol ((±)-Citronellol) is a monoterpene Pelargonium graveolens. Citronellol ((±)-Citronellol) induces necroptosis of cancer cell via up-regulating TNF-α, RIP1/RIP3 activities, down-regulating caspase-3/caspase-8 activities and increasing ROS (reactive oxygen species) accumulation<sup>[1]</sup>.

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## CUSTOMER VALIDATION

- bioRxiv. 2023 Jun 3.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[1]. Yu WN, et al. Citronellol Induces Necroptosis of Human Lung Cancer Cells via TNF- $\alpha$  Pathway and Reactive Oxygen Species Accumulation. *In Vivo*. 2019 Jul-Aug;33(4):1193-1201

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

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