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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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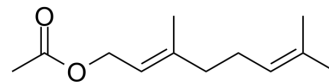
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Geranyl acetate

Cat. No.:	HY-N7070		
CAS No.:	105-87-3		
Molecular Formula:	C ₁₂ H ₂₀ O ₂		
Molecular Weight:	196.29		
Target:	Apoptosis		
Pathway:	Apoptosis		
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 : 100 mg/mL (509.45 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.0945 mL	25.4725 mL	50.9450 mL
	5 mM	1.0189 mL	5.0945 mL	10.1890 mL
	10 mM	0.5095 mL	2.5473 mL	5.0945 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: ≥ 2.5 mg/mL (12.74 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Geranyl acetate, an acyclic monoterpene ester derived from geraniol, is widely used in the cosmetics industry due to its pleasant scent^[1]. Geranyl acetate can induces cell apoptosis^[2].

In Vitro

Geranyl acetate exhibits significant anti-cancer activity against colo-205 cancer cell line with IC₅₀ value of 30 μM^[2]. Geranyl acetate induces apoptosis in colo-205 cells, this apoptosis is associated with upregulation of Bax and downregulation of Bcl-2 expressions^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Plants. 2021, 10(5), 966.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Wu T, et al. Engineering *Saccharomyces cerevisiae* for the production of the valuable monoterpene ester geranyl acetate. *Microb Cell Fact.* 2018 Jun 5;17(1):85.
- [2]. Qi F, et al. Geraniol and geranyl acetate induce potent anticancer effects in colon cancer Colo-205 cells by inducing apoptosis, DNA damage and cell cycle arrest. *J BUON.* 2018 Mar-Apr;23(2):346-352.
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Caution: Product has not been fully validated for medical applications. For research use only.

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