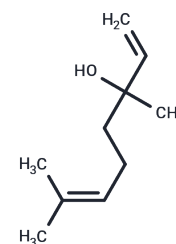


Linalool

Chemical Properties

CAS No. :	78-70-6
Formula:	C ₁₀ H ₁₈ O
Molecular Weight:	154.25
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	<p>1. Linalool (Linalol), a natural compound of the essential oils, has been shown to have antinociceptive, antimicrobial, and anti-inflammatory properties. 2. Linalool was protected against LPS/GalN-induced liver injury through induction of antioxidant defense via Nrf2 activating and reduction inflammatory response via NF-κB inhibition. 3. Linalool biosynthesis and accumulation might be involved in plant defense against bacterial and fungal pathogens and be associated with field resistance to citrus canker. 4. Linalool significantly increased the expression of antioxidant enzymes regulated by Nrf-2 and diminished lung tissue levels of several pro-inflammatory cytokines, including tumor necrosis factor α (TNF-α) and interleukin (IL)-6.</p>
Targets(IC50)	Apoptosis,Endogenous Metabolite,Antibacterial,iGluR,IL Receptor,TNF

Solubility Information

Solubility	DMSO: 50 mg/mL (324.15 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	<p>10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (12.97 mM),Sonication is recommended.</p> <p><i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i></p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.483 mL	32.4149 mL	64.8298 mL
5 mM	1.2966 mL	6.483 mL	12.966 mL
10 mM	0.6483 mL	3.2415 mL	6.483 mL
50 mM	0.1297 mL	0.6483 mL	1.2966 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Coelho VR, et al. *Phytomedicine*. 2011, 18(10):896-901.
- Hosseinzadeh H, et al. *Phytother Res*. 2012, 26(9):1399-404.
- Mei-Yin Chang, et al. *Int J Mol Sci*. 2015, 16(12): 28169-28179.

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