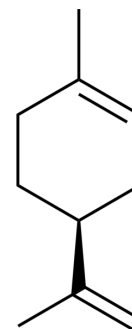


(-)-Limonene

Cat. No.:	HY-Z0478
CAS No.:	5989-54-8
Molecular Formula:	C ₁₀ H ₁₆
Molecular Weight:	136.23
Target:	Others
Pathway:	Others
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 (734.05 mM; Need ultrasonic)
H₂O : 50 mg/mL (367.03 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass	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: 50 mg/mL (367.03 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); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (18.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(-)-Limonene ((S)-(-)-Limonene) is a monoterpene found in citrus plants like lemon, orange, and grape. (-)-Limonene can induce a mild bronchoconstrictive effect^[1].

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

[1]. Larsen ST, et al. Effects of R-(+)- and S-(-)-limonene on the respiratory tract in mice. Hum Exp Toxicol. 2000 Aug;19(8):457-66.

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

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