

Product Data Sheet

Product Name: γ -Terpinene

Cat. No.: GC41503

Chemical Properties

Cas. No. 99-85-4

SMILES CC1=CCC(C(C)C)=CC1

Formula $C_{10}H_{16}$

M.Wt 136.2

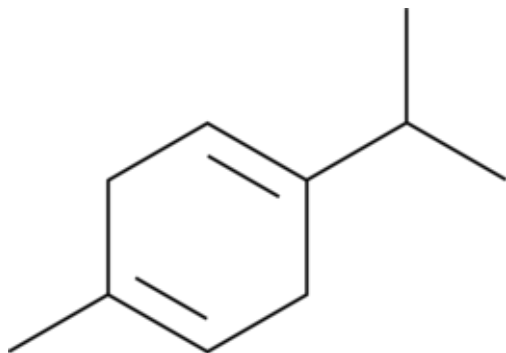
Solubility DMF: 20 mg/ml, DMSO: 20 mg/ml, Ethanol: 20 mg/ml, Ethanol: PBS (pH 7.2) (1:3): 0.25 mg/ml

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

γ -Terpinene is a monoterpene that has been found in various plants, including *C. sativa*, with diverse biological activities. It scavenges 2,2'-diphenyl-1-picrylhydrazyl and 2,2'-azinobis(3-ethylbenzothiazoline-6-sulfonate) (ABTS⁺) free radicals ($\text{IC}_{50}\text{s} = 2.8$ and 30 mM, respectively) and reduces hemolysis induced by AAPH in isolated human erythrocytes. γ -Terpinene reduces the growth of *T. evansi* in a concentration-dependent manner. It increases membrane permeability and decreases growth of *X. oryzae* bacteria. In vivo, γ -terpinene (100 mg/kg) reduces Triton WR1339-induced increases in serum cholesterol and triglyceride levels in rats. It reduces paw edema induced

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

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by histamine, bradykinin, carrageenan, and prostaglandin E2 in mice. It also inhibits fluid extravasation in a mouse model of acetic acid microvascular permeability and reduces neutrophil migration in lung in a mouse model of acute lung injury.

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