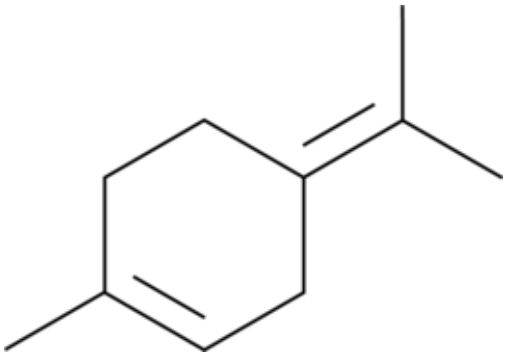
Product Data Sheet

Product Name: Terpinolene
Cat. No.: GC41498

Chemical Properties

Cas. No.	586-62-9		
Formula	C10H16	M.Wt	136.2
Solubility	Chloroform: Slightly Soluble,Methanol: Slightly Soluble	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

Terpinolene is a monoterpene found in the essential oils of various plants, including C. sativa, and has diverse biological activities including antiproliferative and antioxidant properties. It inhibits expression of AKT1 in Jurkat and K562 cells by 95% when used at a concentration of 0.05% and inhibits the growth of K562 cells when used at a concentration of 0.01%. Terpinolene also inhibits the growth of HT-29, Hep-2, NCI-292, and HL-60 cells (IC50s = 16.7, 13.7, 17.4, and 28.8 µg/ml, respectively). In cultured human blood cells, terpinolene (10-75 mg/L) increases total antioxidant capacity (TAC), but decreases cell viability when used at a concentration of ≥150 mg/L.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA