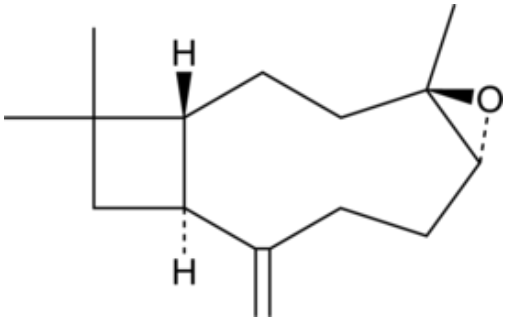
Product Data Sheet

Product Name: (-)-Caryophyllene oxide
Cat. No.: GC45245

Chemical Properties

Cas. No.	1139-30-6		
SMILES	CC(C1)(C)[C@@]2([H])[C@@]1([H])C(CC[C@@H]3[C@](C)(O3)CC2)=C		
Formula	$C_{15}H_{24}O$	M.Wt	220.4
Solubility	DMF: 20 mg/ml,DMSO: 10 mg/ml,Ethanol: 30 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

(-)-Caryophyllene oxide is a bicyclic sesquiterpene and a metabolite of β-caryophyllene that has been found in C. sativa and has anticancer properties. Unlike β-caryophyllene, (-)-caryophyllene oxide does not bind to the cannabinoid (CB) receptor CB2 (Ki = >20 µM). It induces calcium currents in HL-60 cells expressing CB2 receptors but also does so in CB2-deficient cells. (-)-Caryophyllene oxide is cytotoxic to HepG2, AGS, HeLa, SNU-1 and SNU-16 cells (IC50s = 3.95, 12.6, 13.55, 16.79, and 27.39 µM, respectively). It is the volatile component of C. sativa sensed by narcotic detection dogs. Formulations containing (-)-caryophyllene have been used as flavoring agents.

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