



LKT Laboratories, Inc.

(-)-Umbellulone

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Product Information

Product ID U482046

CAS No. 546-78-1

Chemical Name (1R,5S)-4-Methyl-1-propan-2-ylbicyclo(3.1.0)hex-3-en-2-one

Synonym (R)-Umbellulone, AC1L9CYT, C09911

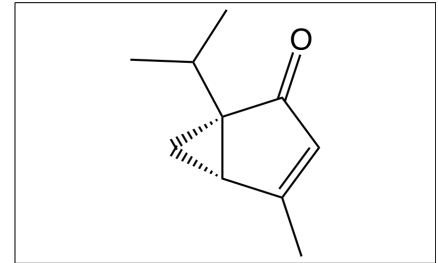
Formula $C_{10}H_{14}O$

Formula Wt. 150.22

Melting Point

Purity $\geq 98\%$

Solubility



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
U482046	1 mg	\$50.00
U482046	5 mg	\$145.00

Store Temp -20°C

Ship Temp Ambient

Description Umbellulone is one of the principal constituents of essential oils from several plants that exhibit antimicrobial activity. The essential oil of *Tanacetum walteri* (Anthemideae-Asteraceae) from Iran was found to have antimicrobial activity against *Staphylococcus aureus*, *Enterococcus faecalis* and *Klebsiella pneumoniae*. Umbellulone, the principal compound of *Umbellularia californica* (California bay laurel), is the primary larvicidal against *Aedes aegypti*. In addition, *Enterococcus faecalis*, *Proteus mirabilis* and *Candida albicans* are also susceptible to the oil of the leaves of *Cupressus lusitanica* Mill from Cameroon that contains umbellulone.

References Ghaderi A, Sonboli A. Chemical composition and antimicrobial activity of the essential oil of *Tanacetum walteri* (Anthemideae-Asteraceae) from Iran. *Nat Prod Res.* 2019 (12):1787-1790. PMID: 29405745 DOI: 10.1080/14786419.2018.1434640.

Tabanca N, Avonto C, Wang M. et al. Comparative investigation of *Umbellularia californica* and *Laurus nobilis* leaf essential oils and identification of constituents active against *Aedes aegypti*. *J Agric Food Chem.* 2013, 61:12283-91. PMID: 24266426 DOI: 10.1021/jf4052682.

Teke GN, Elisée KN, Roger KJ. Chemical composition, antimicrobial properties and toxicity evaluation of the essential oil of *Cupressus lusitanica* Mill. leaves from Cameroon. *BMC Complement Altern Med.* 2013, 13:130. PMID: 23758765 PMID: PMC3687683 DOI: 10.1186/1472-6882-13-130.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.