

Product Data Sheet

Product Name: L(-)-Carvone

Cat. No.: GD06146

Chemical Properties

Cas. No. 6485-40-1

Formula C₁₀H₁₄O

M.Wt 150.22

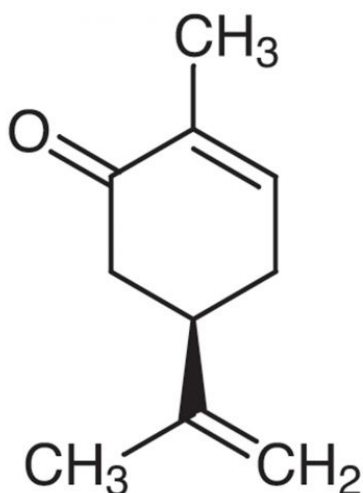
Solubility DMSO : 100 mg/mL (665.69 mM; Need ultrasonic)

Storage Store at RT, argon filling

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

(-)-Carvone is an insect neurotoxin and a irreversible acetylcholinesterase (AChE) inhibitor. (-)-Carvone can be used as a bird repellent, inhibits larval growth, decreases pupation rate, and increases mortality of larvae.

(-)-Carvone (3.04 mM; 30 min) inactivates eel AChE with K_i value of 2.19 mM^[1].

(-)-Carvone (5% in absolute ethanol v/v, 20 渭L; application to the thoraces ventral surfaces) inhibits AChE such as horse serum cholinesterase, house fly head cholinesterases, and head and thorax

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

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cholinesterases from the Madagascar roach in vitro^[1].

(-)-Carvone (0.05%-0.1% w/v; p.o.; 7 d) inhibits *E. insulana* larvae growth, decreases weight of larvae^[2].

[1]. Grundy D L, et al. Inhibition of acetylcholinesterases by pulegone-1, 2-epoxide[J]. Pesticide biochemistry and physiology, 1985, 23(3): 383-388.

[2]. Meisner J, et al. The response of *Earias insulana* Boisd. larvae to phagodeterrent (羧基羧基carvone incorporated in an artificial diet 1[J]. Zeitschrift für Angewandte Entomologie, 1980, 90(1羧基?): 80-82.

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