

Product Data Sheet

Product Name: (R)-(+)-Pulegone

Cat. No.: GC40696

Chemical Properties

Cas. No. 89-82-7

SMILES O=C(C[C@H](C)CC(=C)C1=C(C)C

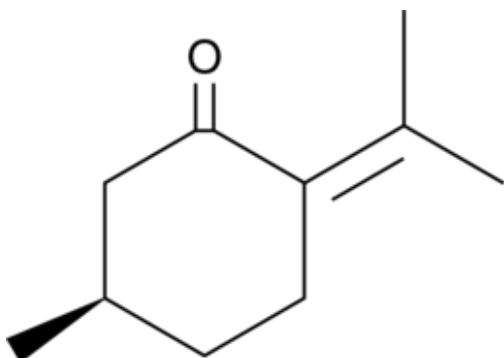
Formula C₁₀H₁₆O M.Wt 152.2

Solubility DMSO : ≥ 270 mg/mL (1773.63 mM) 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

(R)-(+)-Pulegone is a monoterpene that has been found in a variety of plants, including Labiatae species and *M. verticillata*, and has anti-inflammatory activity. It stimulates proliferation of lymphocytes derived from allergic patients in vitro when used at concentrations of 6.2 and 62 µg/ml and reduces the level of IL-13 in supernatant from lymphocyte cultures when used at a concentration of 62 µg/ml. (R)-(+)-Pulegone decreases scratching behavior and reduces skin thickness in a mouse model of atopic dermatitis when administered topically at doses ranging from 0.1 to 10 µM. It also decreases serum IgE levels and skin protein levels of nerve growth factor, IFN-γ, IL-6, IL-1β, TNF-α, NF-κB, phosphorylated ERK1/2, and phosphorylated JNK.

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

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