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- Trockeneiszuschlag
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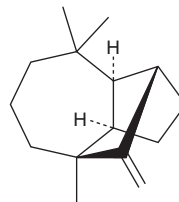
PRODUCT INFORMATION



(+)-Longifolene

Item No. 37362

CAS Registry No.: 475-20-7
Formal Name: (1S,3aR,4S,8aS)-decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene
Synonyms: Junipene, Kuromatsuene, NSC 150808
MF: C₁₅H₂₄
FW: 204.4
Purity: ≥90%
Supplied as: A liquid
Storage: -20°C
Stability: ≥4 years
Item Origin: Plant/*Pinus massoniana* Lamb



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

(+)-Longifolene is supplied as a liquid. A stock solution may be made by dissolving the (+)-longifolene in the solvent of choice, which should be purged with an inert gas. (+)-Longifolene is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of (+)-longifolene in ethanol is approximately 25 mg/ml and approximately 10 mg/ml in DMSO and DMF.

Description

(+)-Longifolene is a tricyclic sesquiterpene that has been found in *C. japonica* and has diverse biological activities.¹⁻⁴ It is active against *S. aureus* and *E. faecalis* (MICs = 600 and 60 ppm, respectively).¹ (+)-Longifolene (1 mg/L) is toxic to red tide plankton (*S. costatum*).² It induces cytotoxicity in DU145 prostate cancer and SCC-9 oral squamous cell carcinoma cells (IC₅₀s = 78.64 and 88.92 μg/ml, respectively).³ (+)-Longifolene is toxic to waterfleas (*D. magna* and *C. dubia*) and fathead minnows (*P. promelas*; LC₅₀s = 0.44, 0.41, and 10.2 mg/L, respectively).⁴

References

- Schmidt, E., Bail, S., Friedl, S.M., et al. Antimicrobial activities of single aroma compounds. *Nat. Prod. Commun.* **5(9)**, 1365-1368 (2010).
- Tsuruta, K., Yoshida, Y.M., Kusumoto, N., et al. Inhibition activity of essential oils obtained from Japanese trees against *Skeletonema costatum*. *J. Wood Sci.* **57**, 520-525 (2011).
- Grover, M., Behl, T., Virmani, T., et al. Exploration of cytotoxic potential of longifolene/junipene isolated from *Chrysopogon zizanioides*. *Molecules* **27(18)**, 5764 (2022).
- Sweet, L.I., and Meier, P.G. Lethal and sublethal effects of azulene and longifolene to *Microtox*[®], *Ceriodaphnia dubia*, *Daphnia magna*, and *Pimephales promelas*. *Bull. Environ. Contam. Toxicol.* **58(2)**, 268-274 (1997).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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