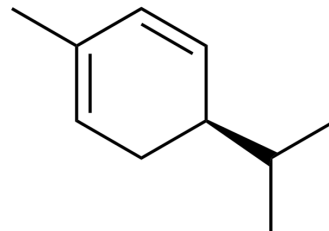


(R)-(-)- α -Phellandrene

Cat. No.:	HY-N9487
CAS No.:	4221-98-1
Molecular Formula:	C ₁₀ H ₁₆
Molecular Weight:	136.23
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(R)-(-)- α -Phellandrene ((-)- α -Phellandrene) is an the (R)-(-)-stereoisomer of α -phellandrene. α -phellandrene is an orally active cyclic monoterpene that attenuates inflammatory response, and induces DNA damage ^{[1][2][3]} .
In Vitro	(R)-(-)- α -Phellandrene shows weak inhibitory activities against bacteria including MRSA, A. tumefaciens, E. carotovora subsp. Carotovora (MIC: 2 mg/mL) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. İşcan G, et al. Biotransformation of (-)-(R)- α -phellandrene: antimicrobial activity of its major metabolite. Chem Biodivers. 2012 Aug;9(8):1525-32.
- [2]. Siqueira HDS, et al. α -Phellandrene, a cyclic monoterpene, attenuates inflammatory response through neutrophil migration inhibition and mast cell degranulation. Life Sci. 2016 Sep 1;160:27-33.
- [3]. Lin JJ, Wu CC, Hsu SC, Weng SW, Ma YS, Huang YP, Lin JG, Chung JG. Alpha-phellandrene-induced DNA damage and affect DNA repair protein expression in WEHI-3 murine leukemia cells in vitro. Environ Toxicol. 2015 Nov;30(11):1322-30.

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

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