(-)-Lavandulyl acetate

Cat. No.: HY-117419

CAS No.: 20777-39-3

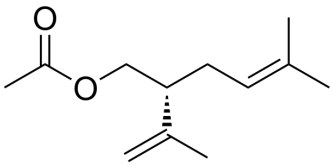
Molecular Formula: $C_{12}H_{20}O_2$

Molecular Weight: 196.29

Target: Parasite

Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(-)-Lavandulyl acetate is a nature product that can be found in Lavandula angustifolia. (-)-Lavandulyl acetate shows toxicity for mosquito vectors. (-)-Lavandulyl acetate can be used as mosquito larvicide[1][2].
In Vitro	(-)-Lavandulyl acetate (2-10 μg/mL; 24 h) shows the toxicity for Anopheles subpictus, Aedes albopictus, Culex tritaeniorhynchus with LC_{50}s of 4.17, 4.60, 5.11 μg/mL, respectively[2]. (-)-Lavandulyl acetate (100-1250 μg/mL) shows toxicity for Anisops bouvieri, Diplonychus indicus, Gambusia affinis with LC_{50} s of 206, 336.17, 534 μg/mL, respectively[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Krzysztof Smigielski, et al. Chemical Composition of the Essential Oil of Lavandula angustifolia Cultivated in Poland. Journal of Essential Oil Bearing Plants. 2013, 12, 338-347.

[2]. Krzysztof Smigielski, et al. Chemical Composition of the Essential Oil of Lavandula angustifolia Cultivated in Poland. Journal of Essential Oil Bearing Plants. 2013, 12, 338-347.

[3]. Govindarajan M, et al. Eco-friendly larvicides from Indian plants: Effectiveness of lavandulyl acetate and bicyclogermacrene on malaria, dengue and Japanese encephalitis mosquito vectors. Ecotoxicol Environ Saf. 2016 Nov;133:395-402.

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