

Stereochemistry of terpene derivatives. Part. 5: Synthesis of chiral lactones fused to a carane system—insect feeding deterrents.

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Streszczenie

Chiral iodo- 9, bromo- 10 and hydroxylactones 12 condensed with the carane system were obtained. In each case, the synthetic pathway led to an enantiomerically pure diastereoisomer to generate two stereogenic centers. Iodo- 9 and bromolactone 10 possess a γ -lactone group while the hydroxylactone 12 possesses a δ -lactone moiety situated trans to the gem-dimethylcyclopropyl ring. The structures of the products were confirmed by X-ray crystallography. These lactones were tested for antifeedant activity against storage pest insects.

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