Total Synthesis of (–)-Conidiogenone B

Bo Xu, Wen Xun, Shaobin Su, Hongbin Zhai *Angew. Chem. Int. Ed.* **2020**, *59*, 16475–16479.





9) *hint:* Two reactions are performed consecutively. Name both reactions.

Some data of the product: ¹³C NMR (100 MHz, CDCI₃) δ 211.2, 181.4, 130.8, 67.6, 52.8, 45.7, 42.9, 42.8, 40.9, 39.8, 39.6, 31.7, 29.3, 25.5, 8.2. HRMS (ESI-TOF): calculated for C₁₅H₂₃O [M+H]⁺ 219.1743, found 219.1743

10) Name of reaction?

hint: (a) $BF_3 \cdot (HOAc)_2$ is used for a subsequent desilylation.

(b) The tertiary stereocenter that is formed features the opposite configuration compared to the corresponding position in the natural product. This will be corrected later.

13) Name of reaction?

14) *hint:* (a) Classic ring expansion move.(b) The configuration of the tertiary stereocenter that was formed in step 10 is inverted in this step. Suggest how.