光学活性(+)-9,10-ジヒドロエクロニアラクトン B の合成

Enantioselective Protecting-Group-Free Synthesis of (+)-9,10-Dihydroecklonialactone B

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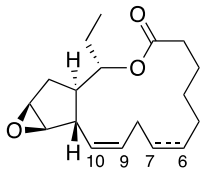
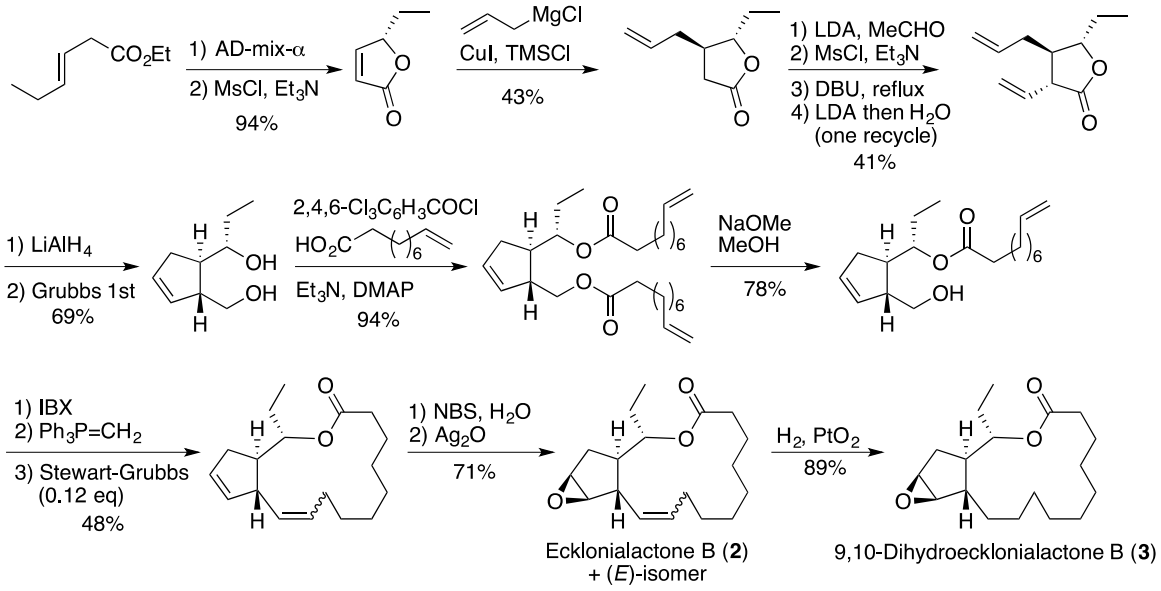
As part of our program aimed at the synthesis of natural products having highly substituted cyclopentane rings, we were interested in marine C-18 oxylipins isolated from various brown algae, the parent member of which are ecklonialactone A (**1**) and ecklonialactone B (**2**). Although these oxylipins possess characteristic structures consisting of a fused cyclopentane/14-membered macrolactone skeleton with five contiguous stereogenic centers, their biological activities have not been fully examined due to the limited supply from natural sources. In this presentation, we report an enantioselective synthesis of (+)-9,10-dihydroecklonialactone B (**3**), a hydrogenation product obtained from **1** and **2**, without using any protecting groups.



ecklonialactone A (**1**): $\Delta^{6,7}$
ecklonialactone B (**2**)
9,10-dihydroecklonialactone B (**3**)



＜参考文献＞

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