

Total Synthesis of (–)-Ambiguine P

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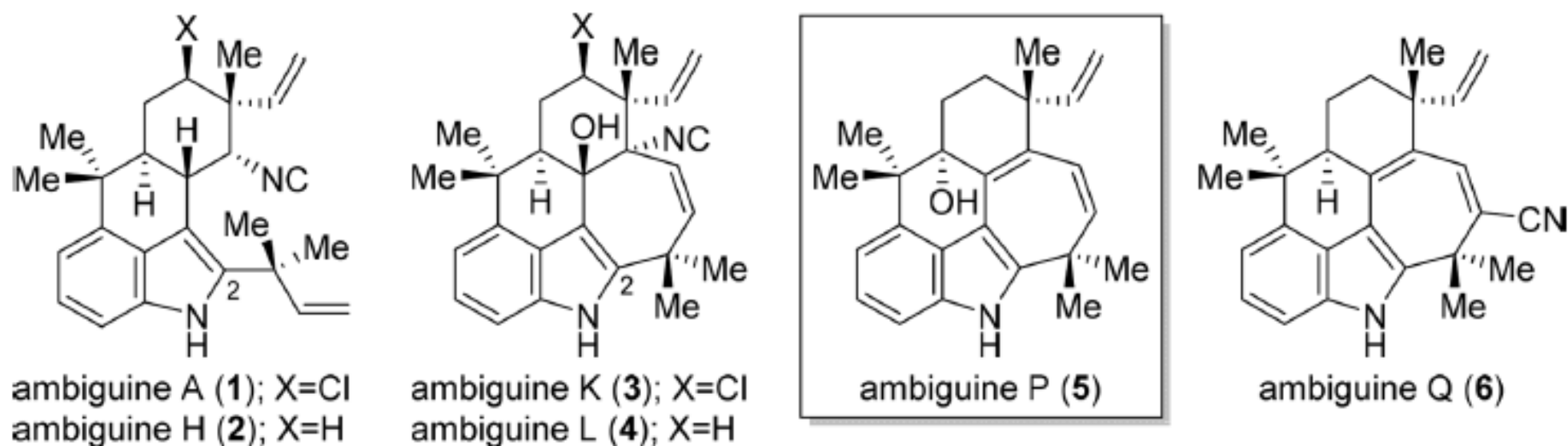
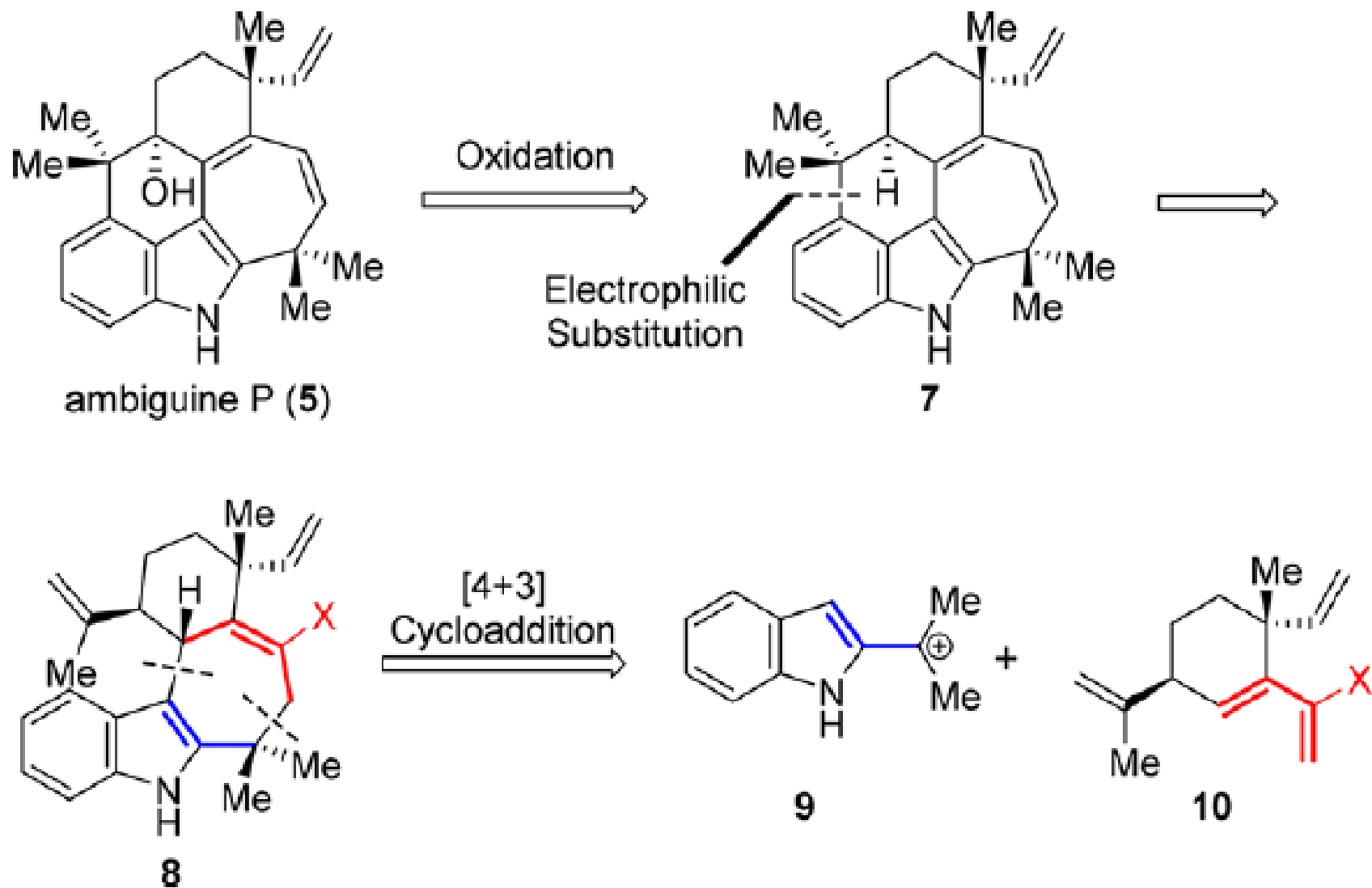
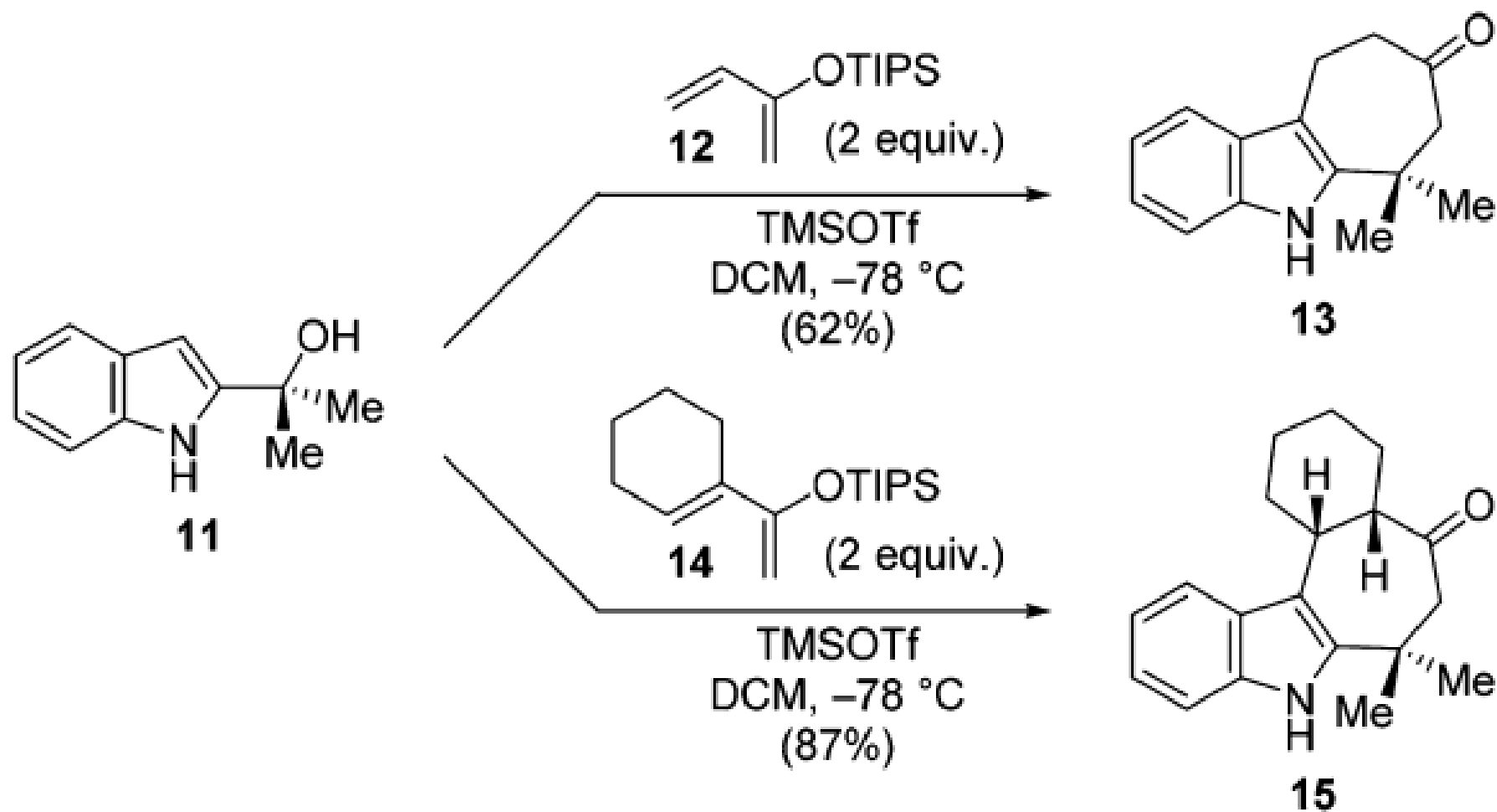


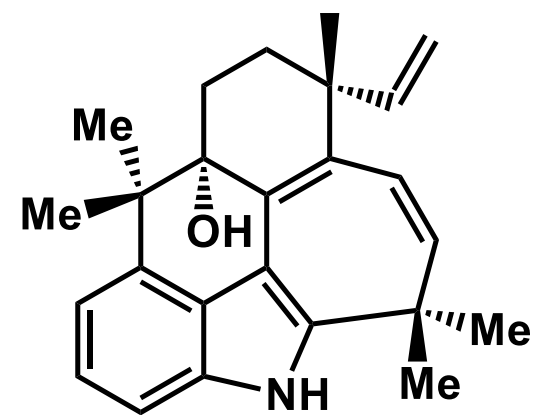
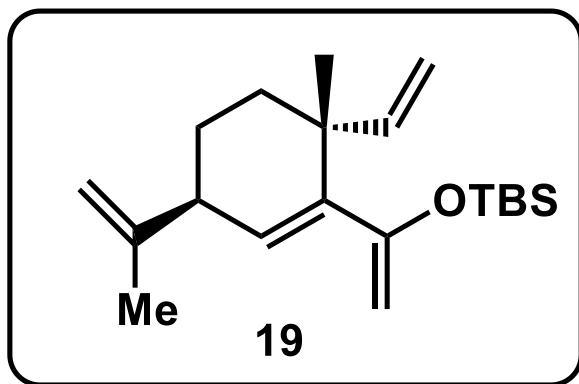
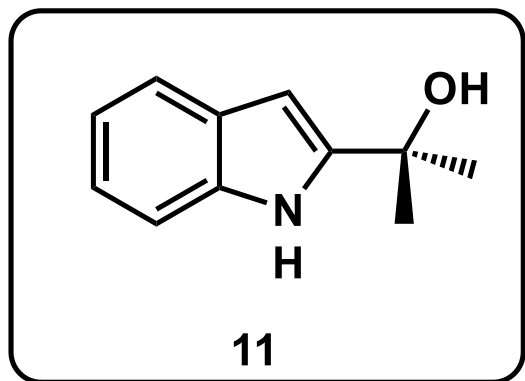
Figure 1. Representative members of the ambiguine group.

Scheme 1. Synthetic Strategy To Access the Ambiguines

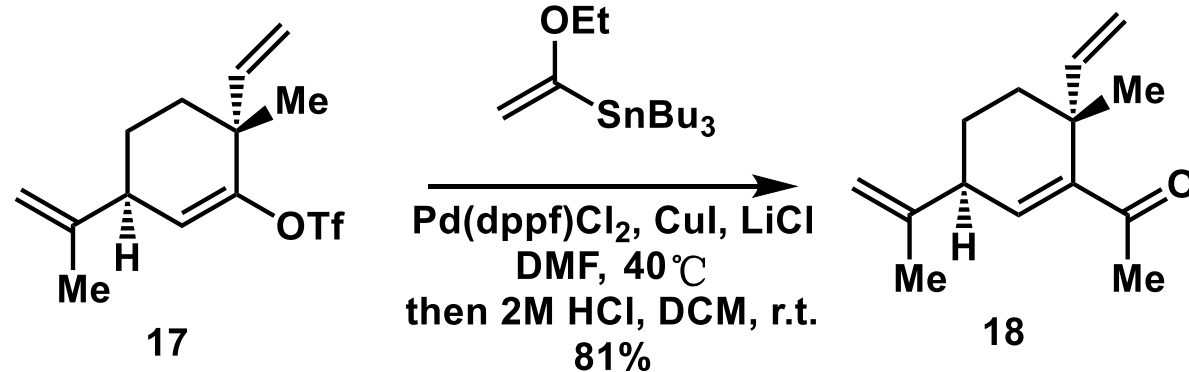
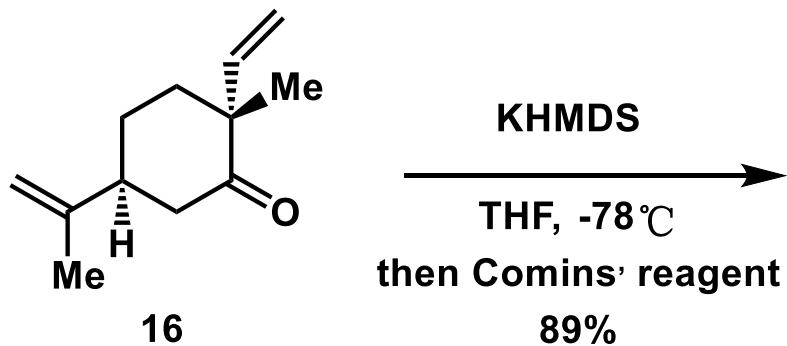
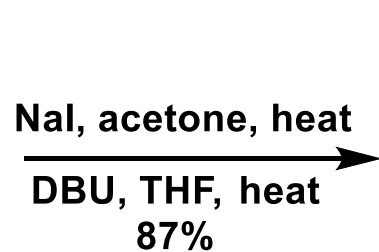
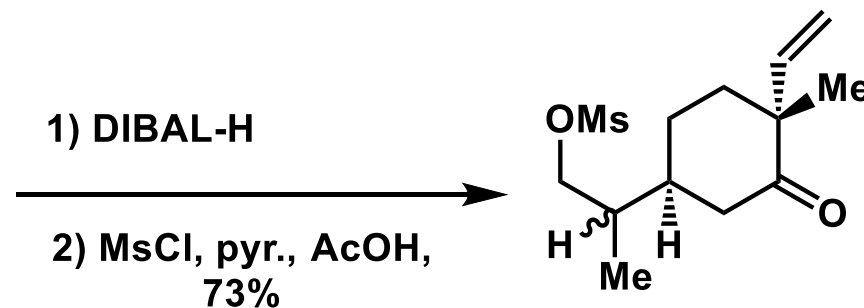
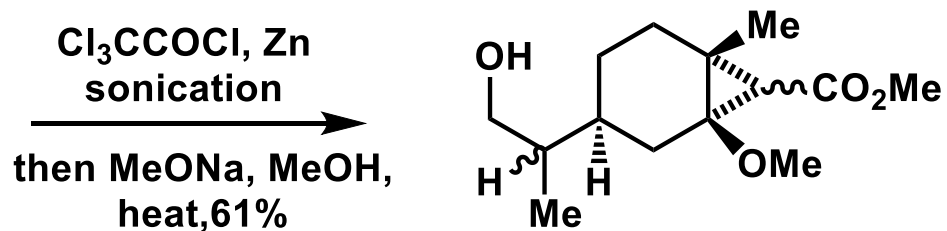
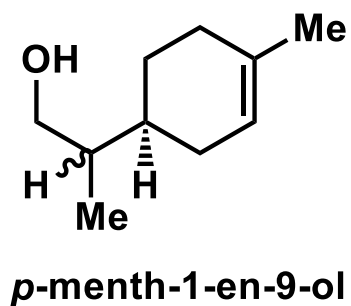
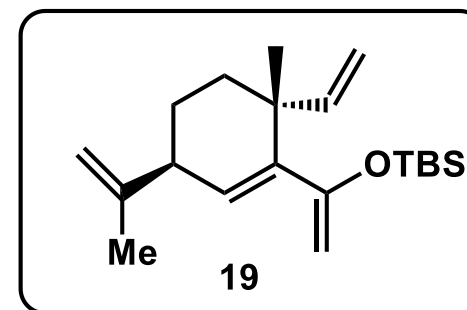
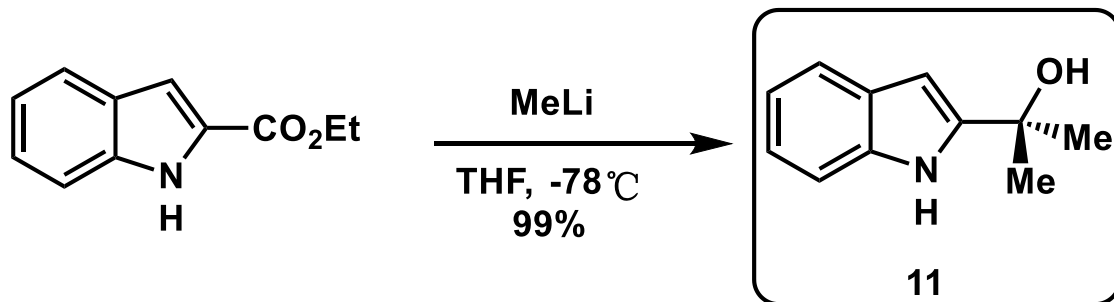


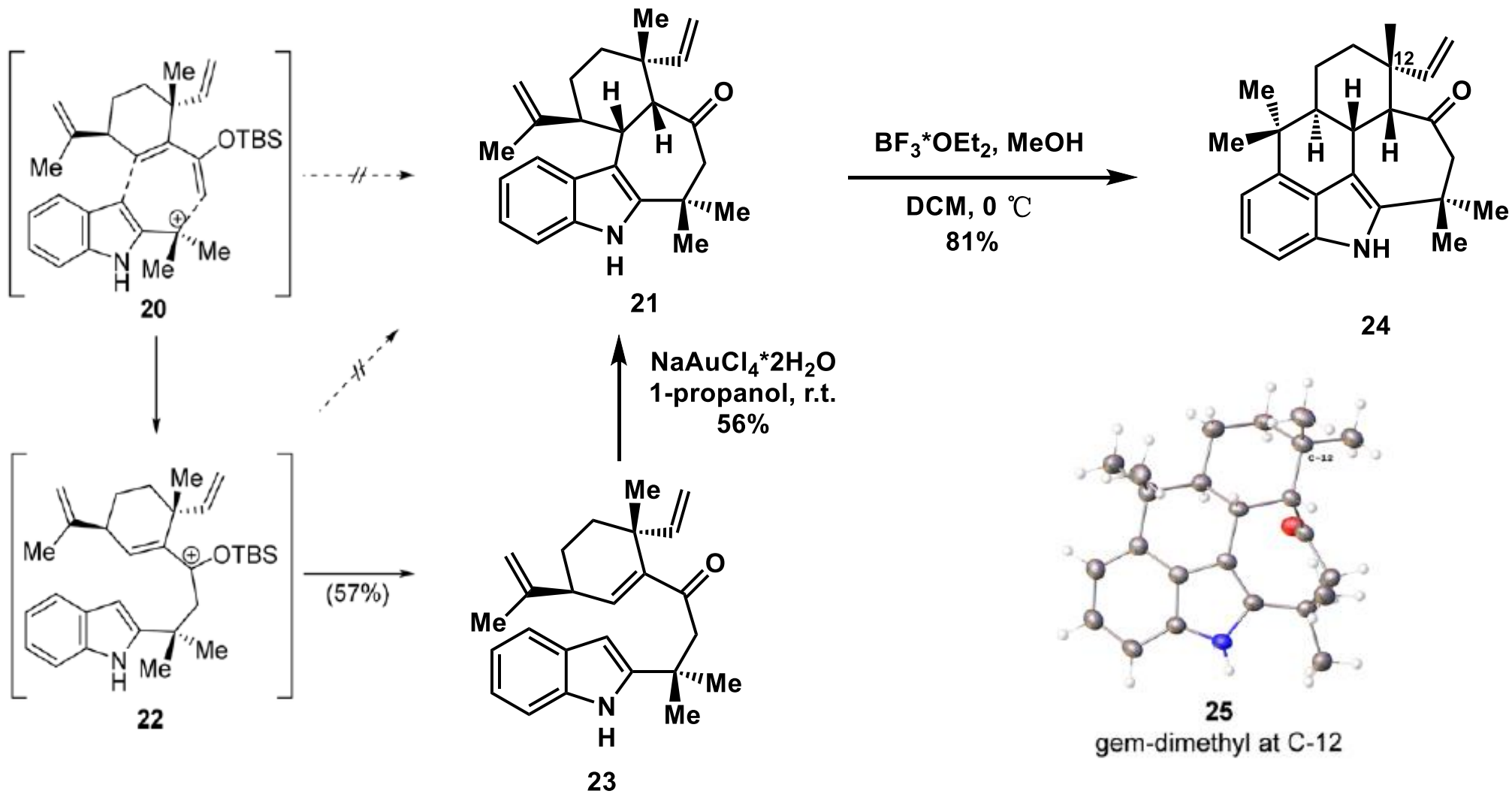
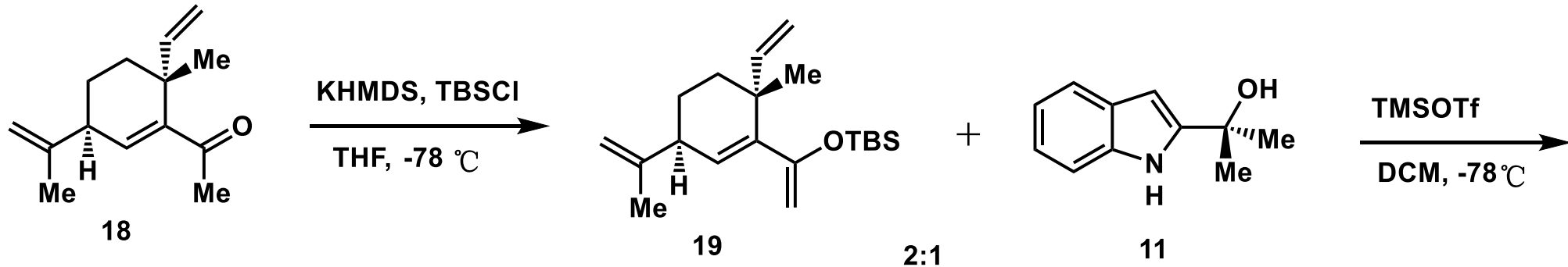
Scheme 2. Exploration of the [4 + 3] Cycloaddition

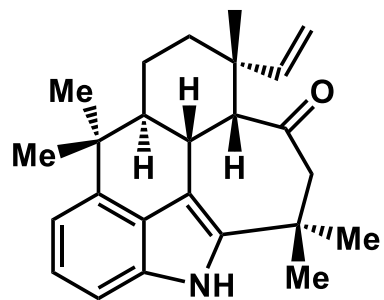




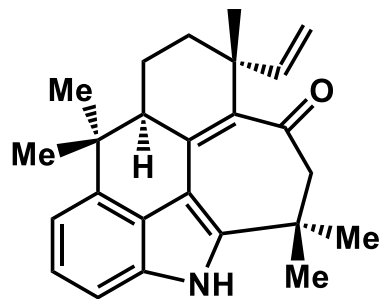
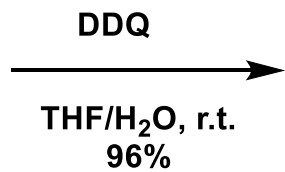
Total Synthesis of (-)-ambiguine P



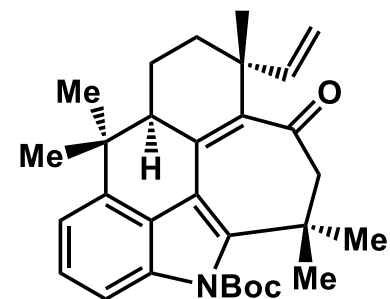
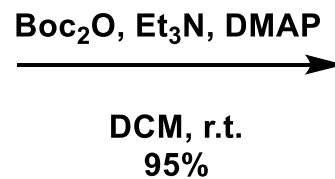




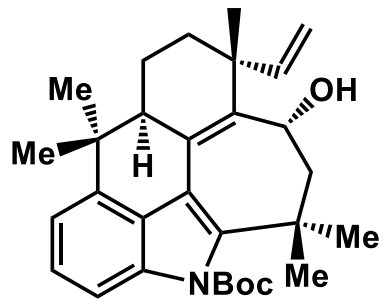
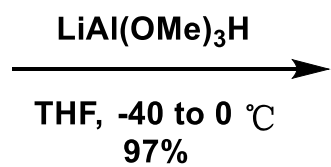
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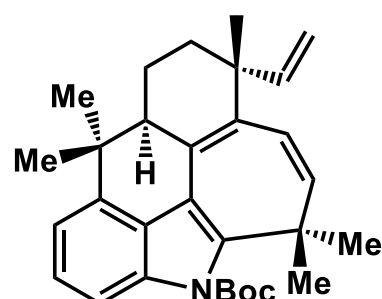
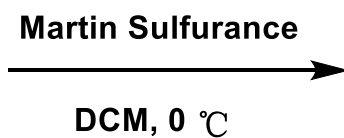
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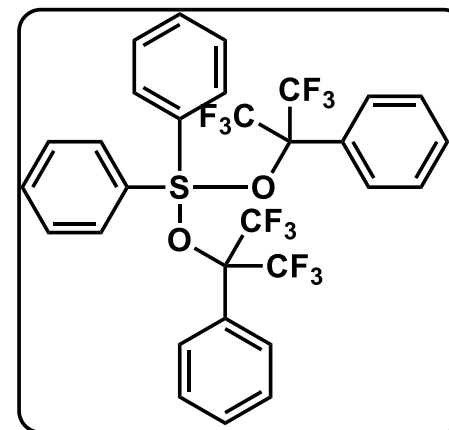
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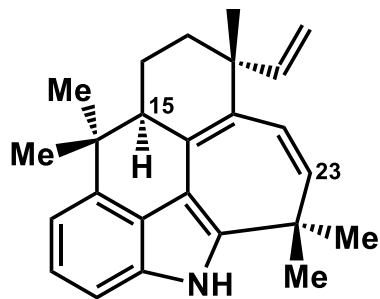
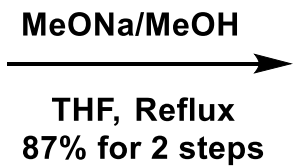
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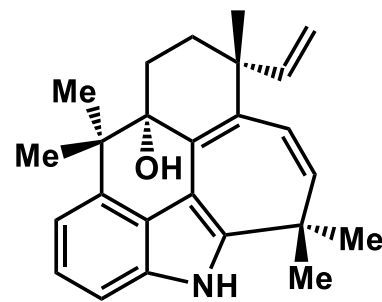
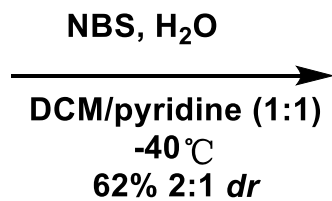
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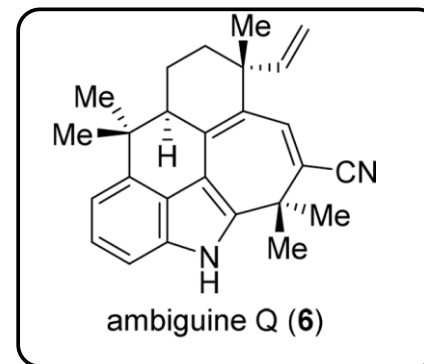
Martin Sulfurance



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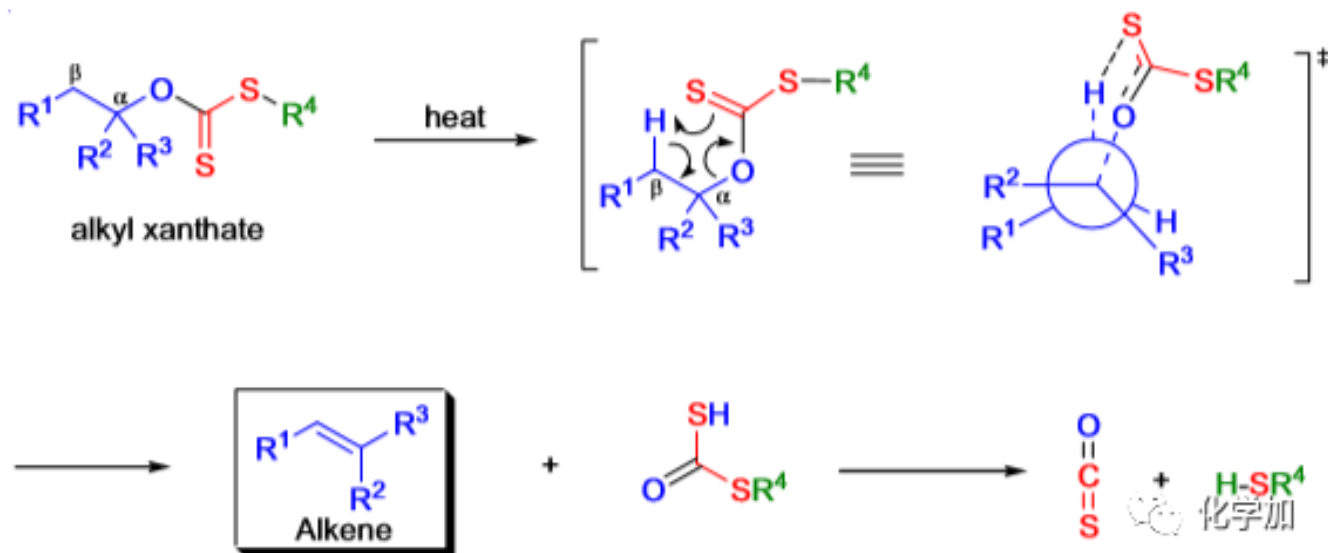
(-)-ambiguine (5)



ambiguine Q (6)

脱水反应

黄原酸酯消除 (Chugaev)



Burgess 试剂

