

Asymmetric Total Synthesis of Havellockate

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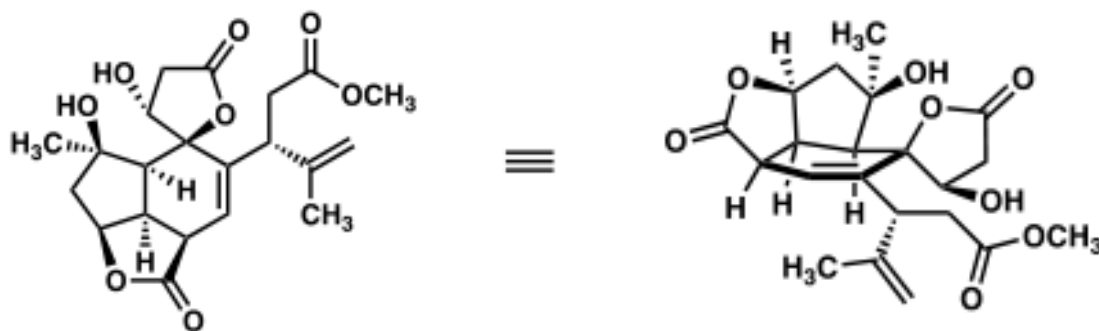
Metrics & More

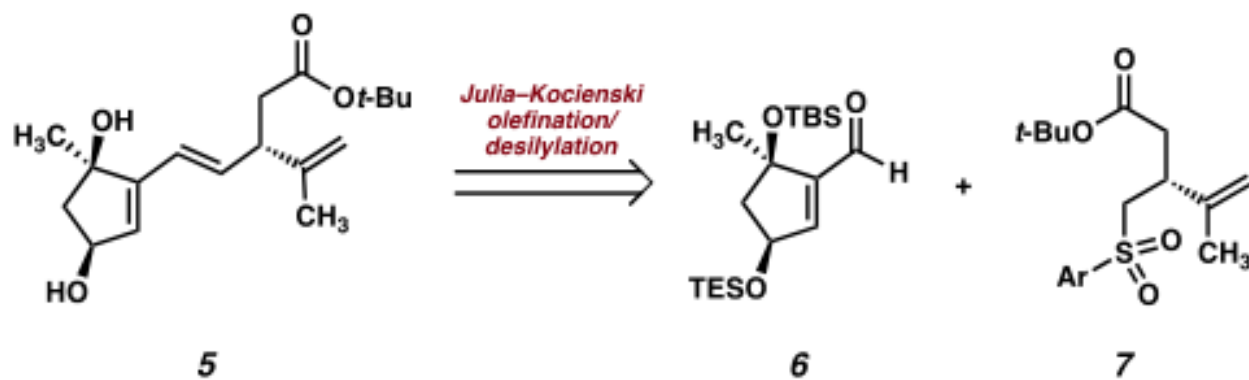
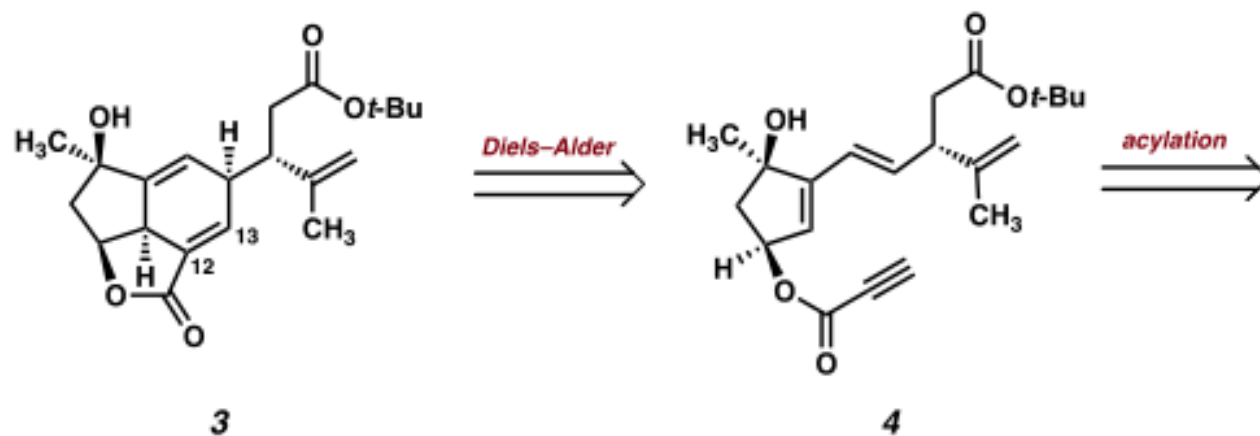
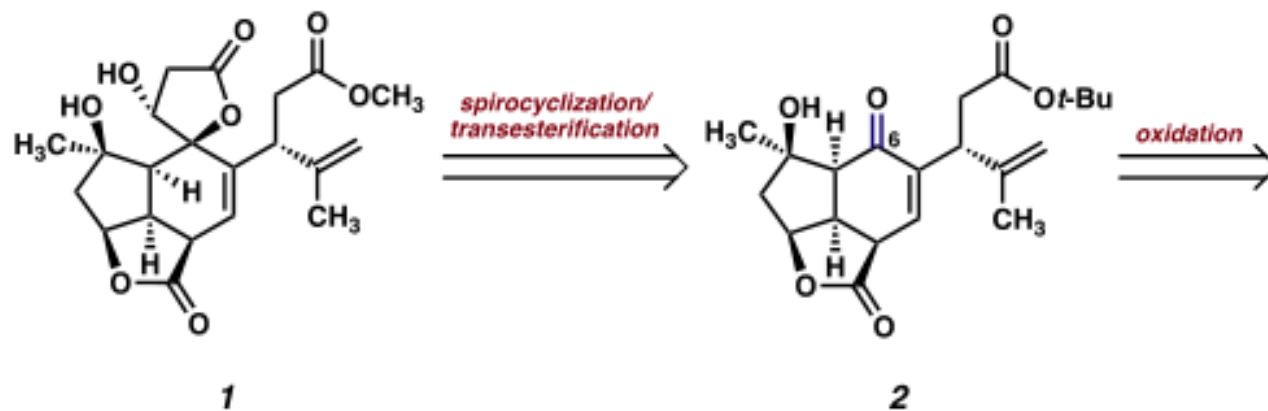


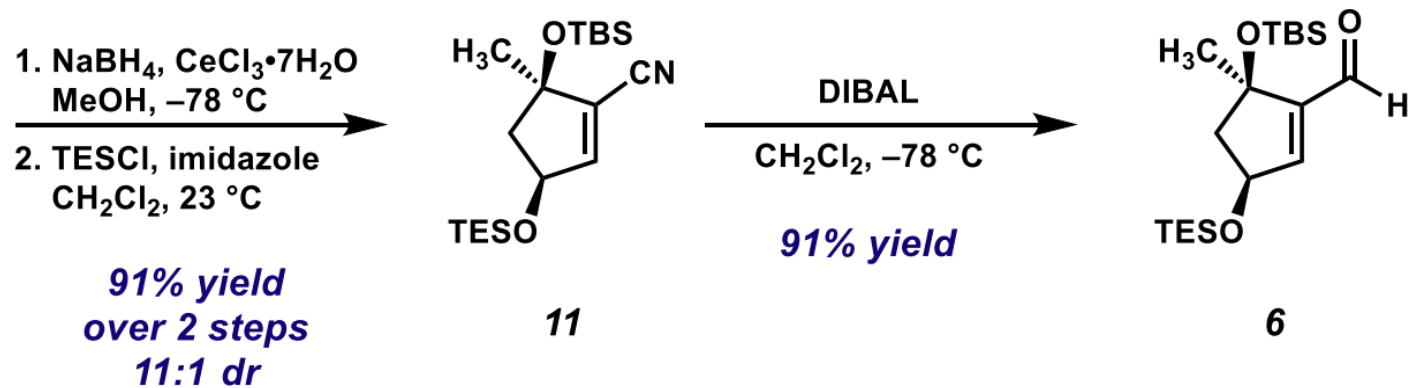
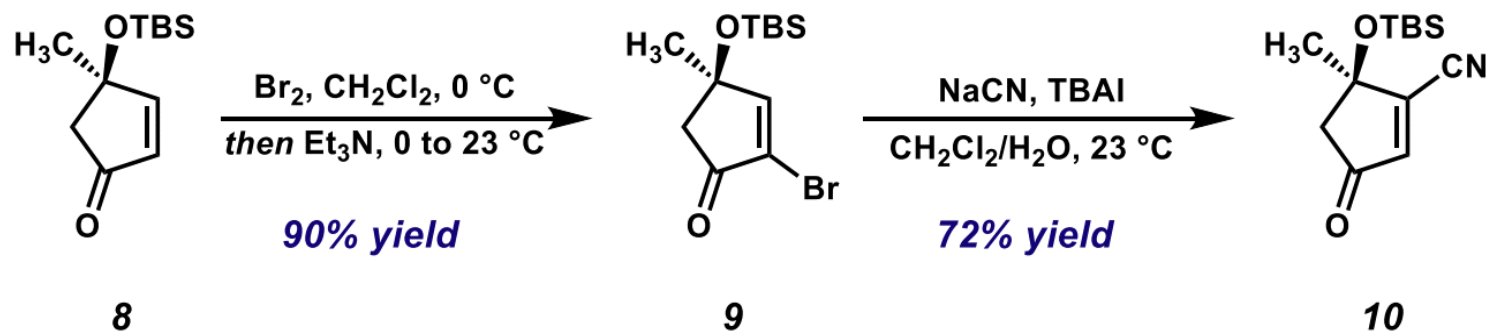
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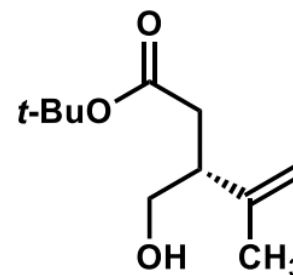
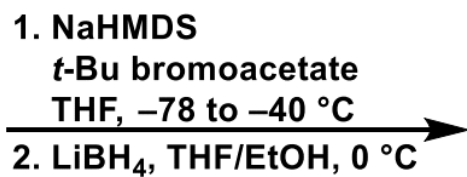
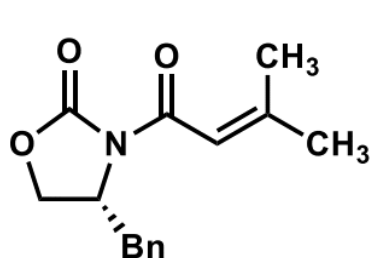


Supporting Information





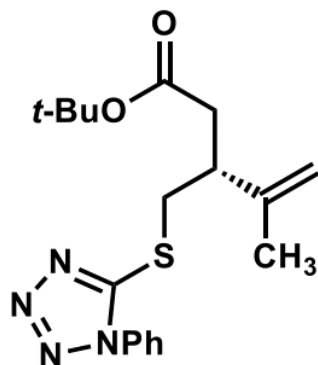
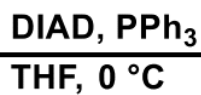
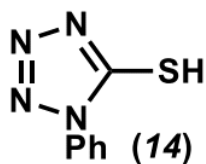




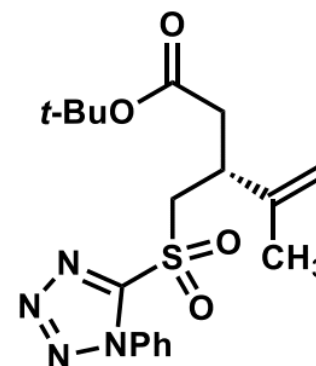
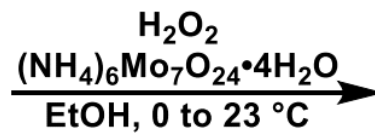
65% yield
over 2 steps
>20:1 dr

12

13



71% yield



81% yield

15

16

手性酰亚胺烯醇化化合物的不对称烷基化反应

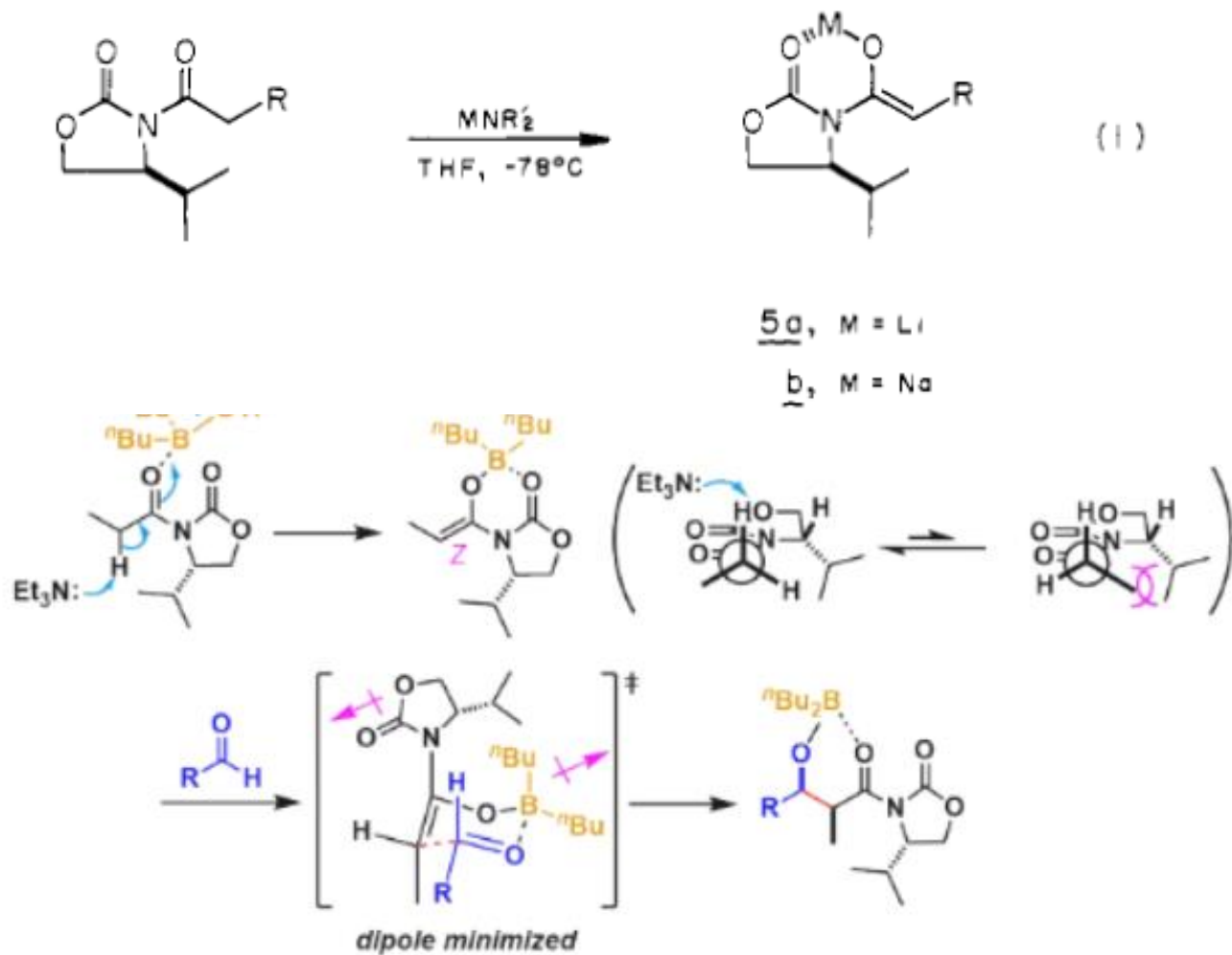


图2: Evans Aldol反应的机理

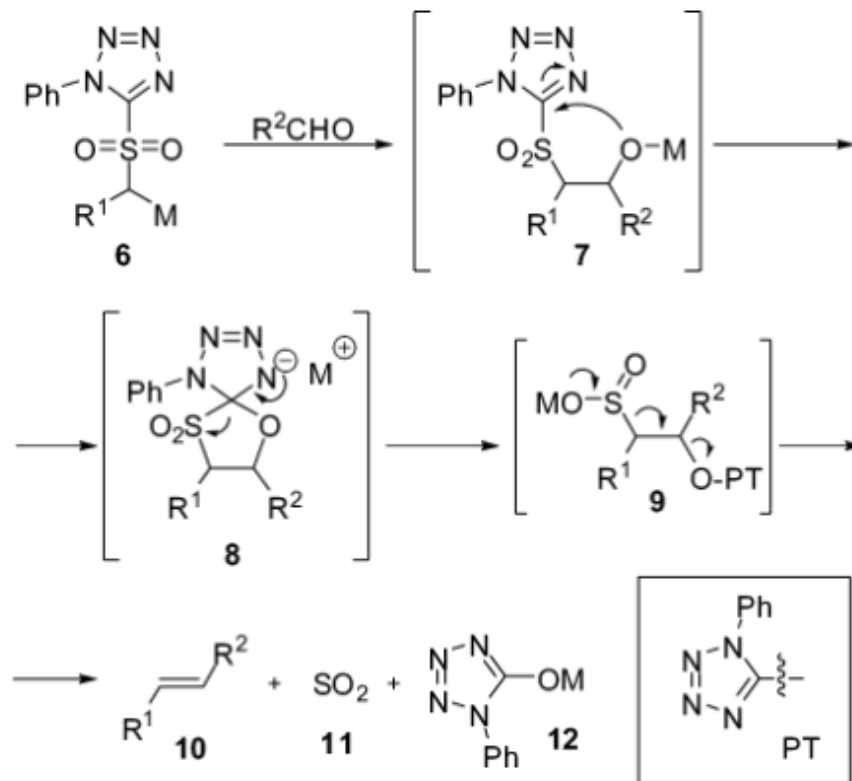
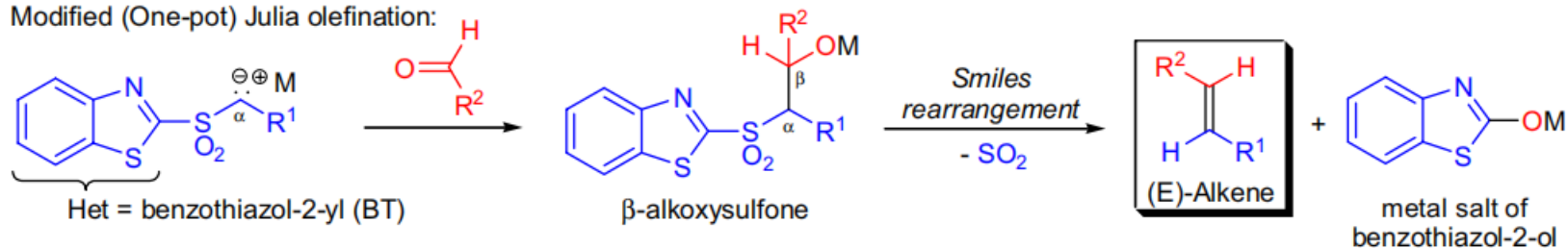
JULIA-LYTHGOE OLEFINATION

(References are on page 610)

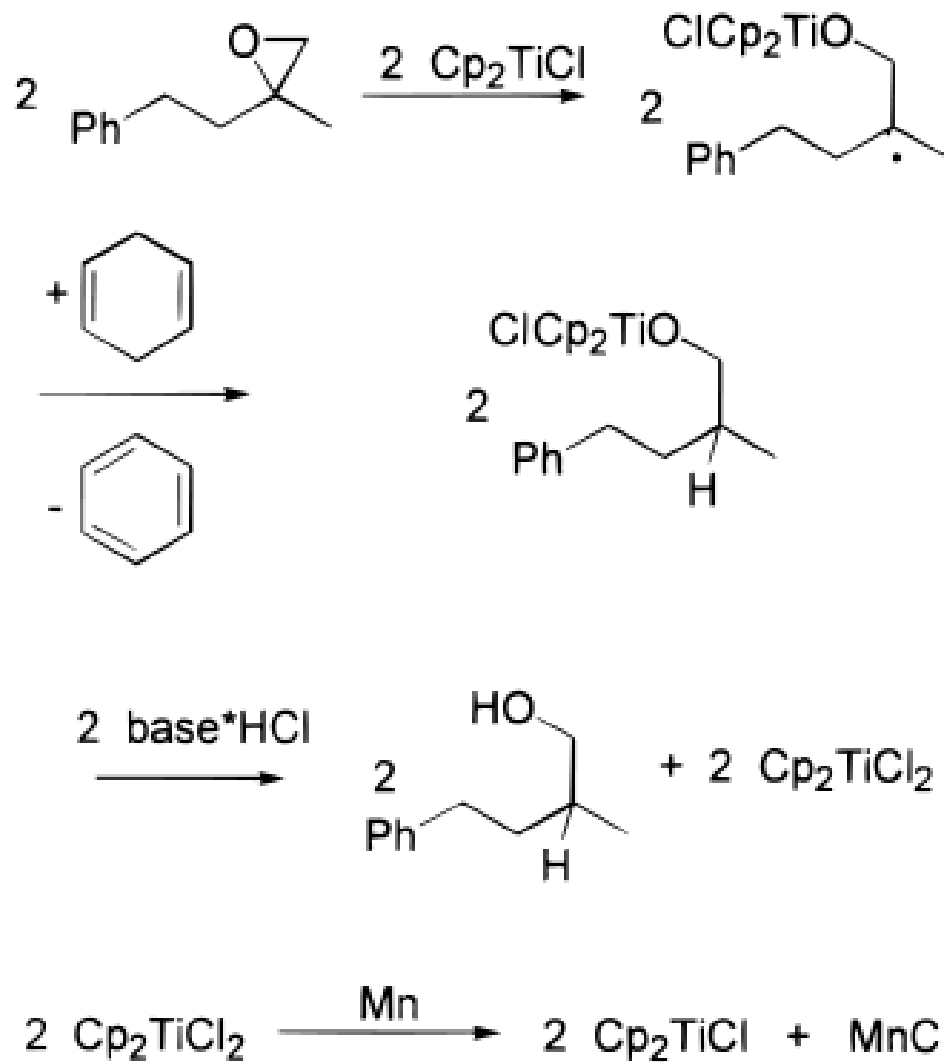
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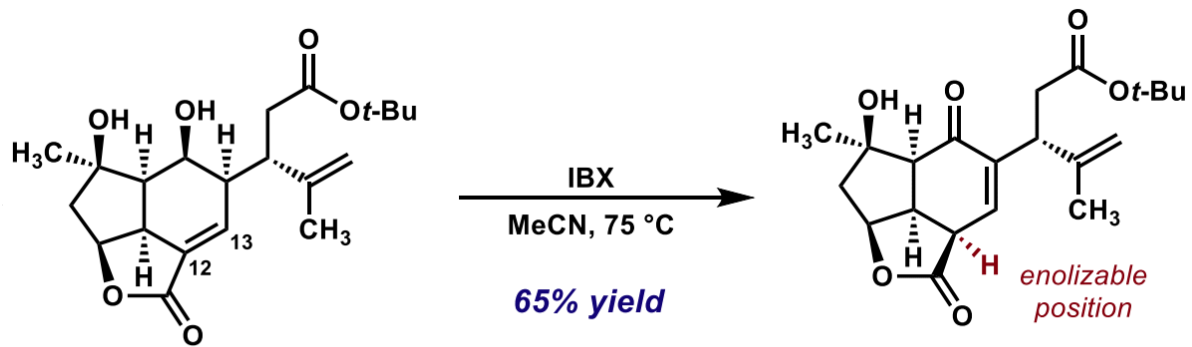
[Seminal Publication¹; Reviews²⁻⁹; Modifications & Improvements¹⁰⁻²²]

Modified (One-pot) Julia olefination:



钛催化环氧化合物的还原开环反应

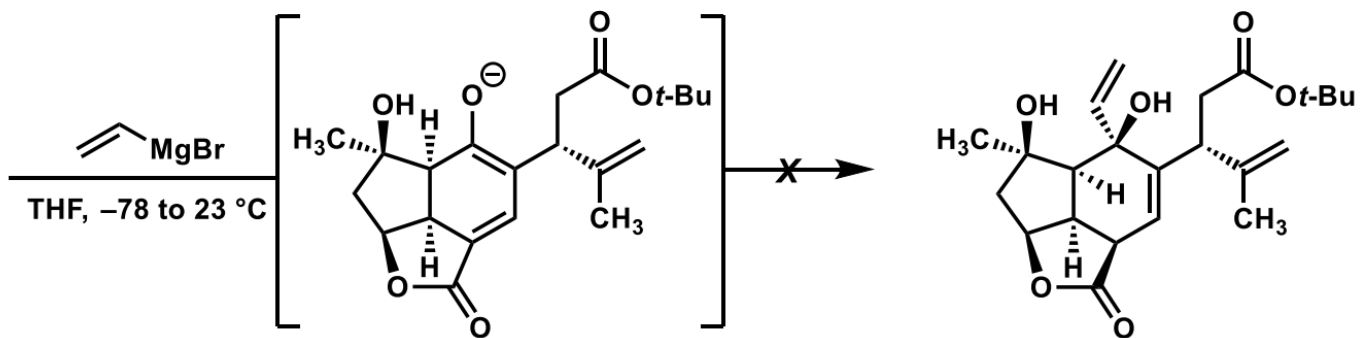




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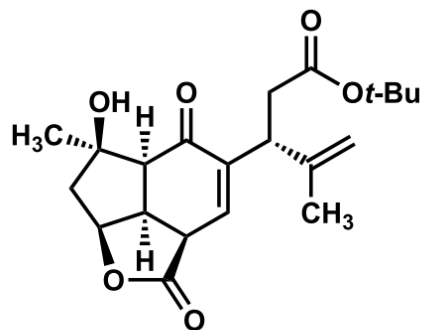
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enolizable position

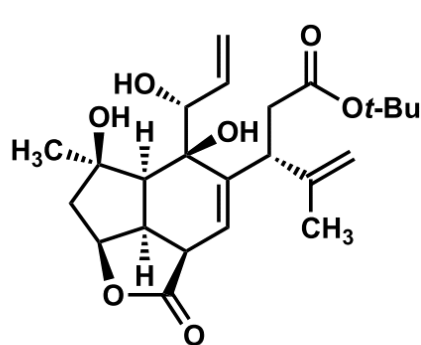


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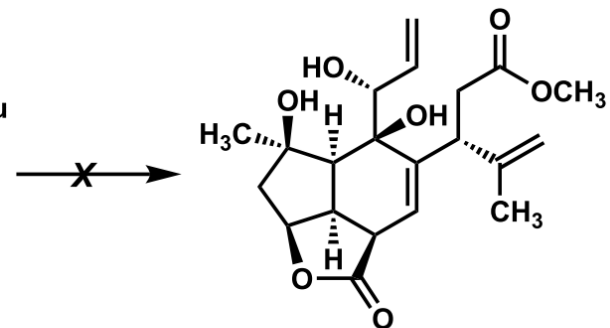
20



27% yield
over 2 steps
>20:1 dr

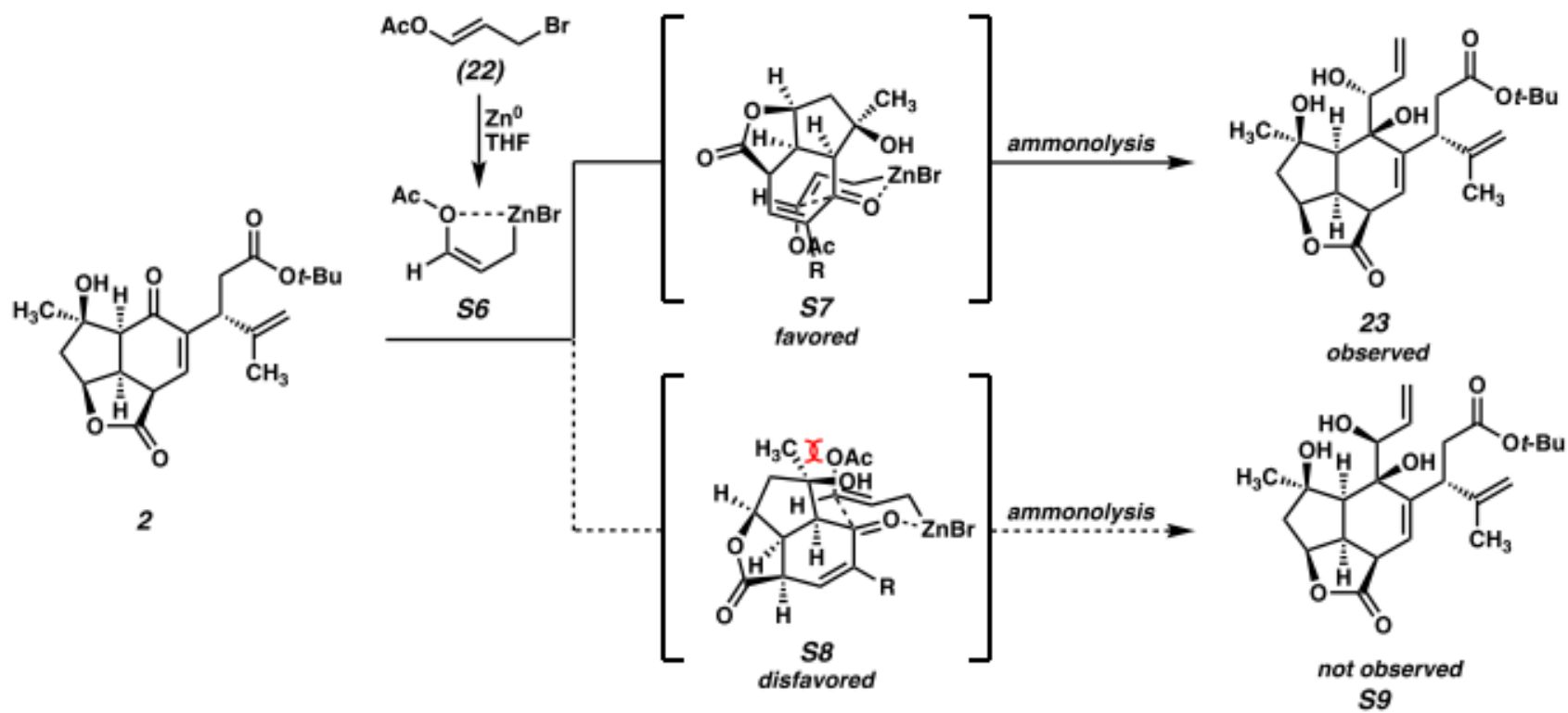
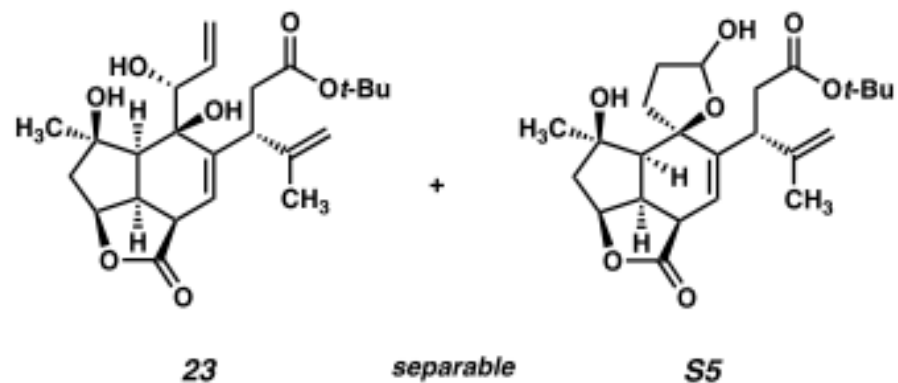


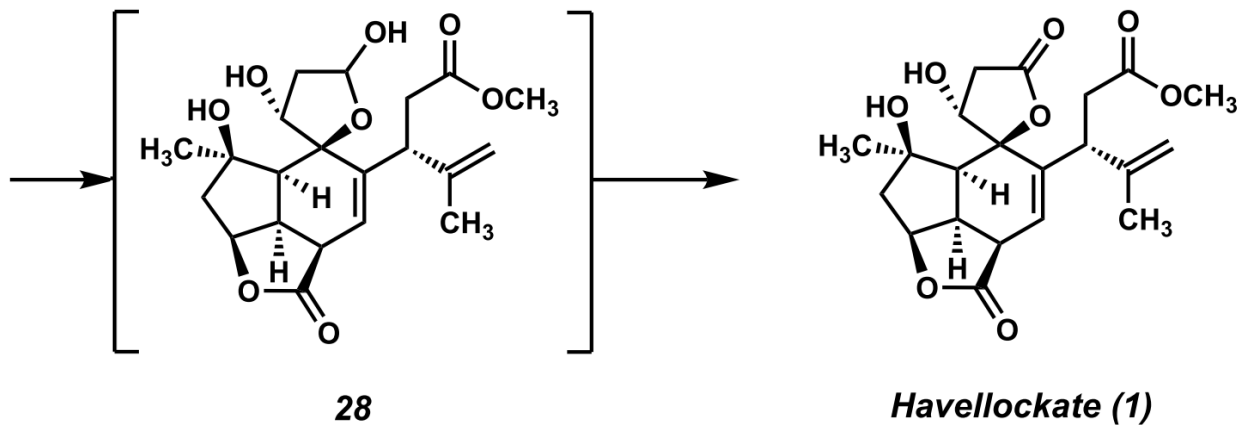
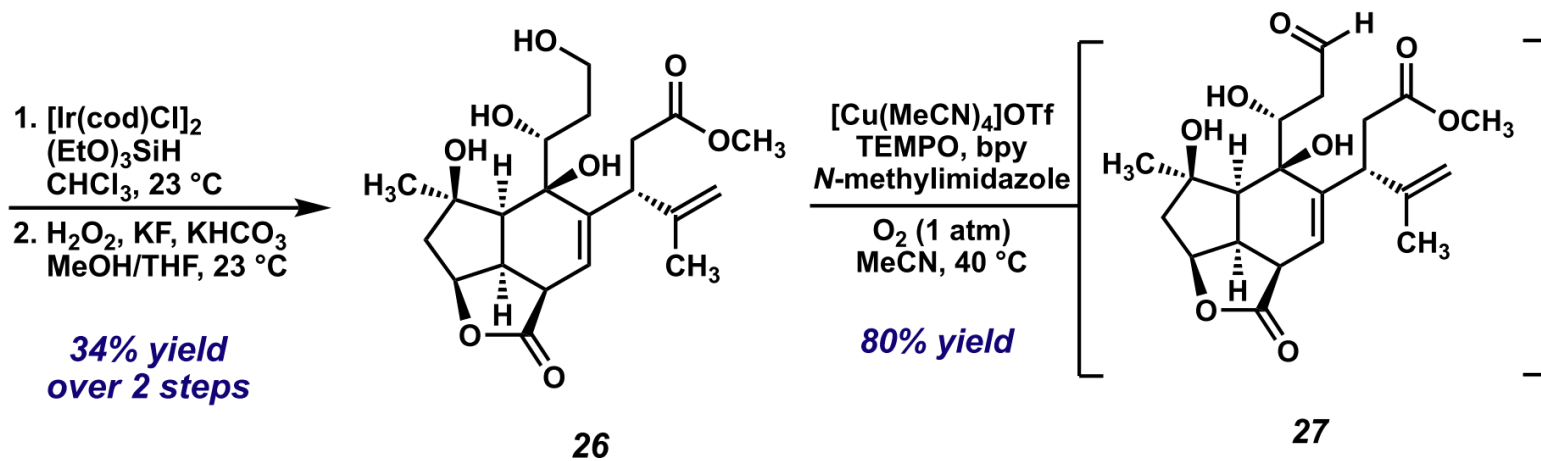
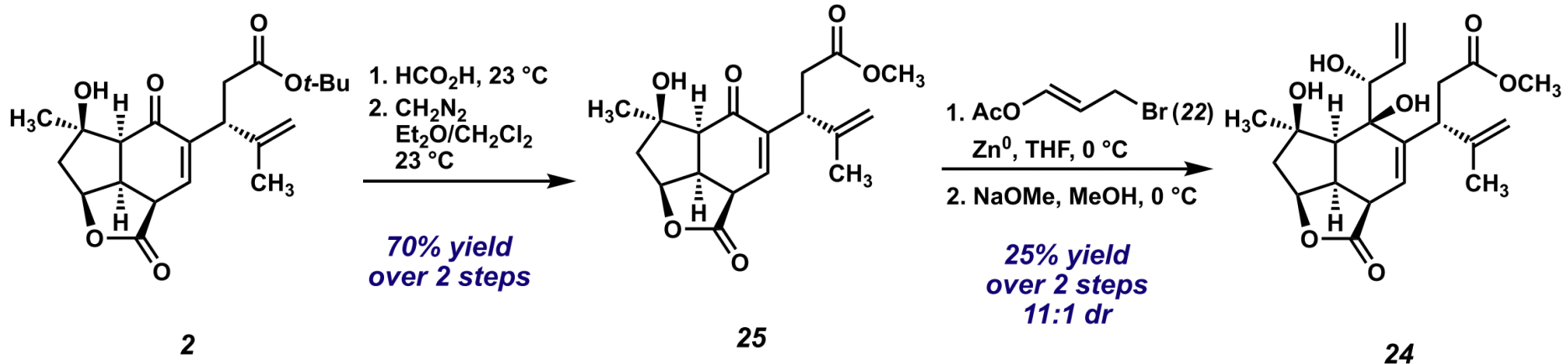
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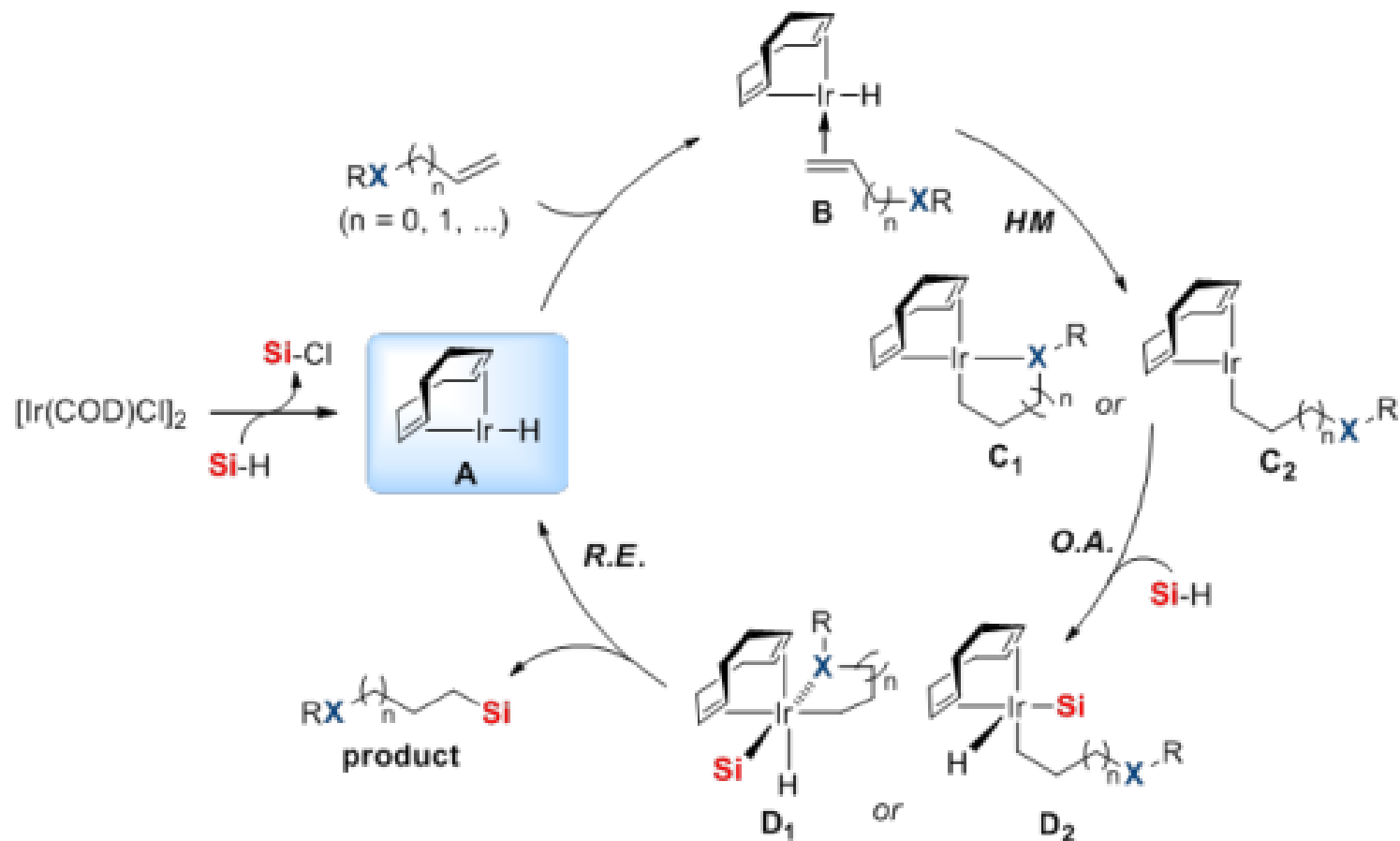
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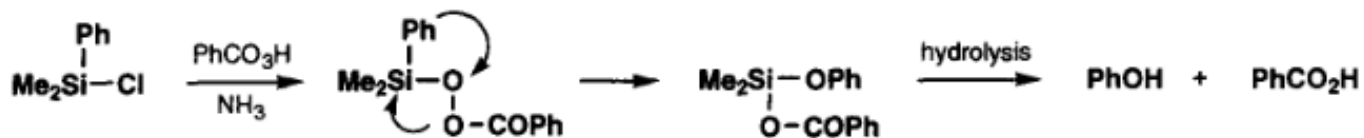




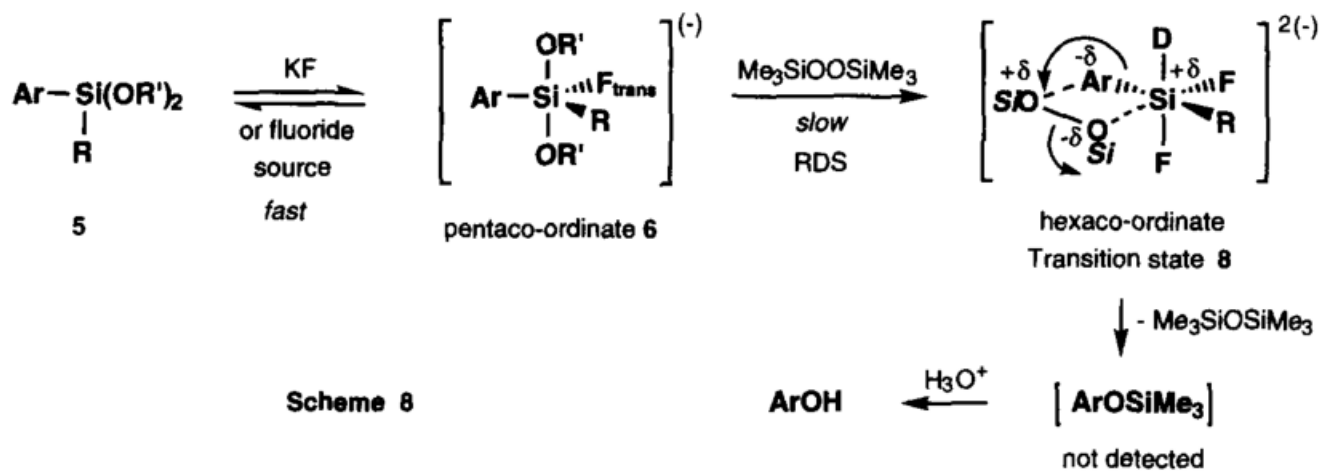
铱催化烯烃的硅氢化反应



Tamao氧化脱硅基反应



Scheme 3



Scheme 8

