

Massachusetts Institute of Technology

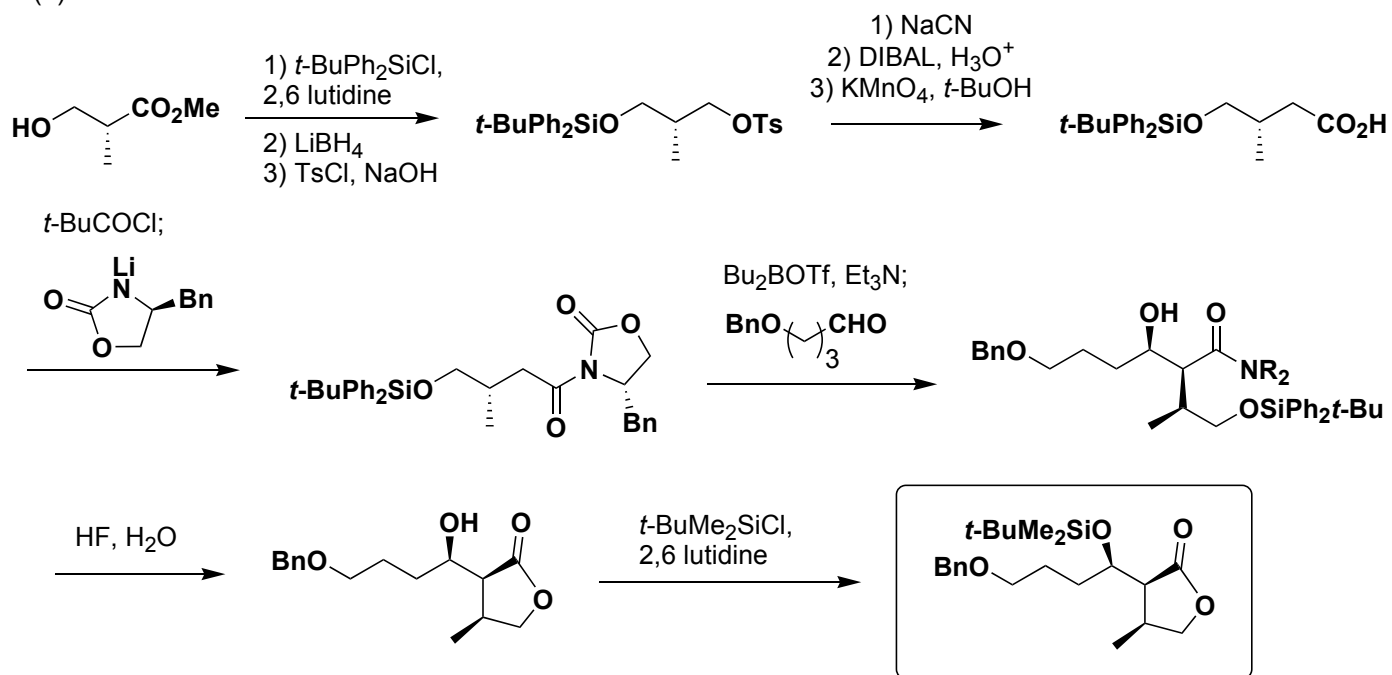
Organic Chemistry 5.512

April 29, 2005
Wesley Austin

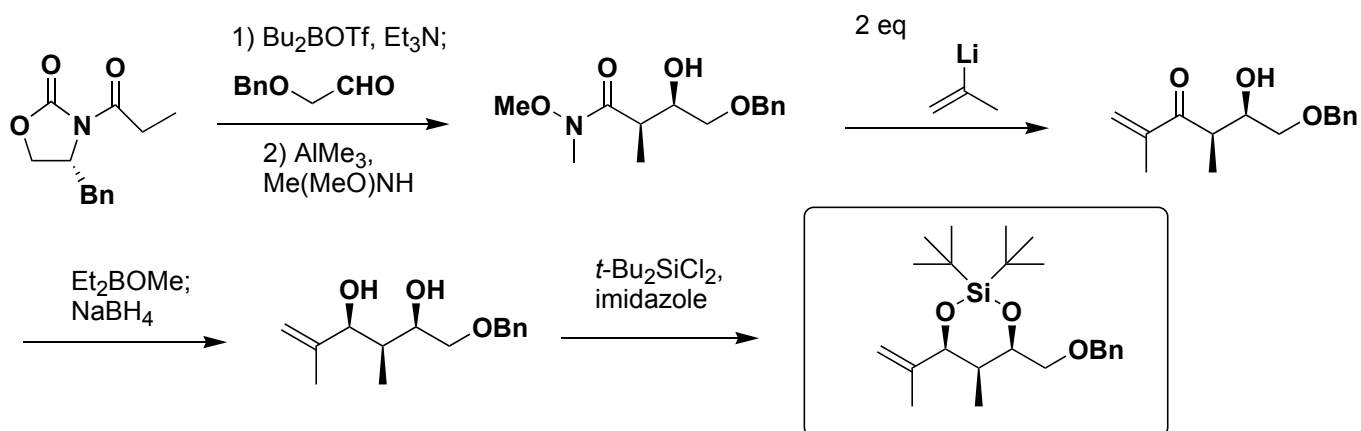
Problem Set 6 Solutions

Stereocontrolled Carbonyl Reduction and Aldol Reactions

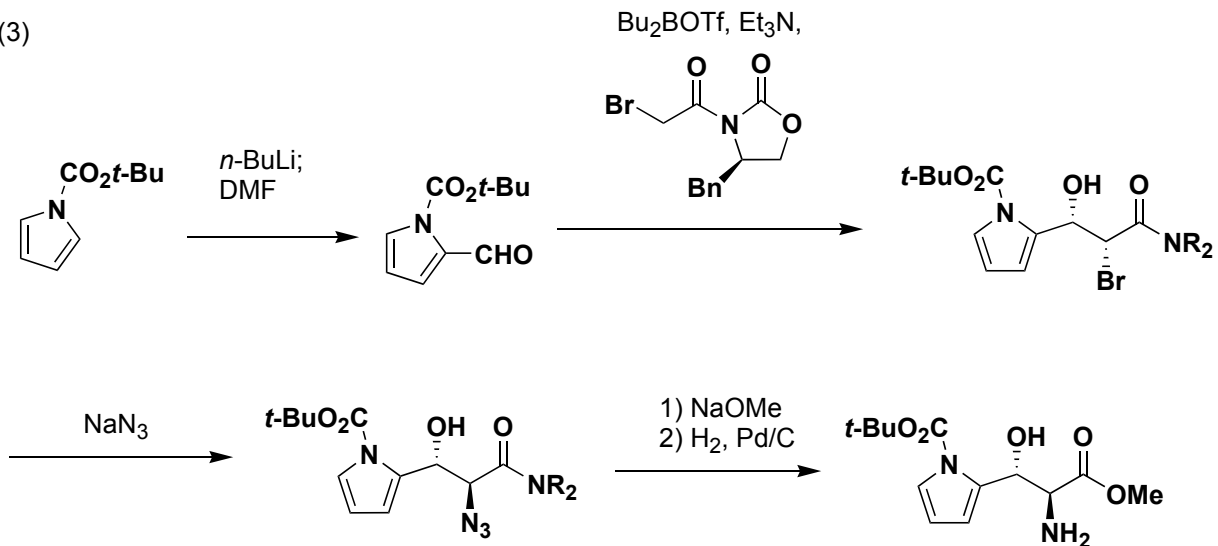
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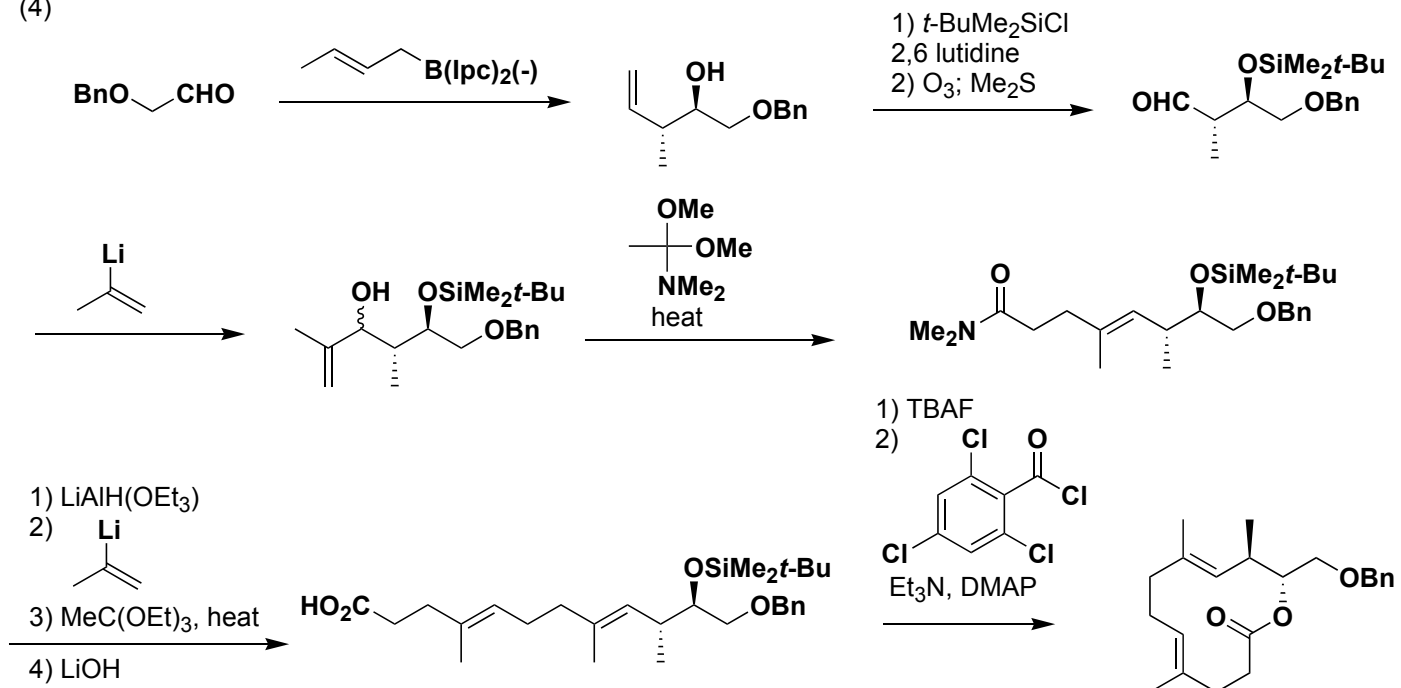
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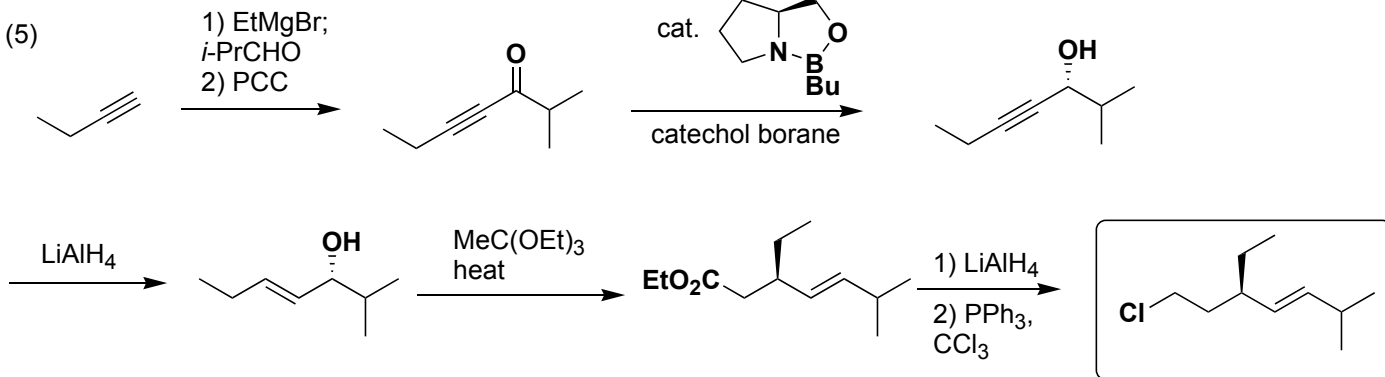
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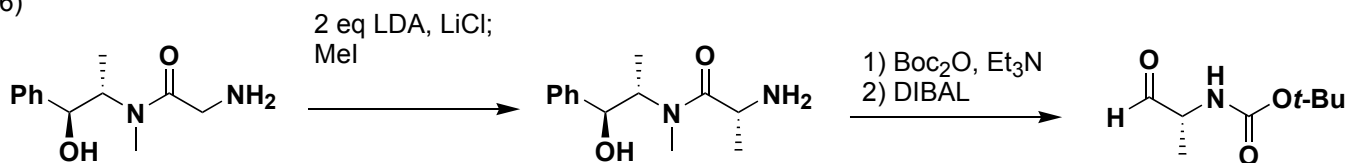
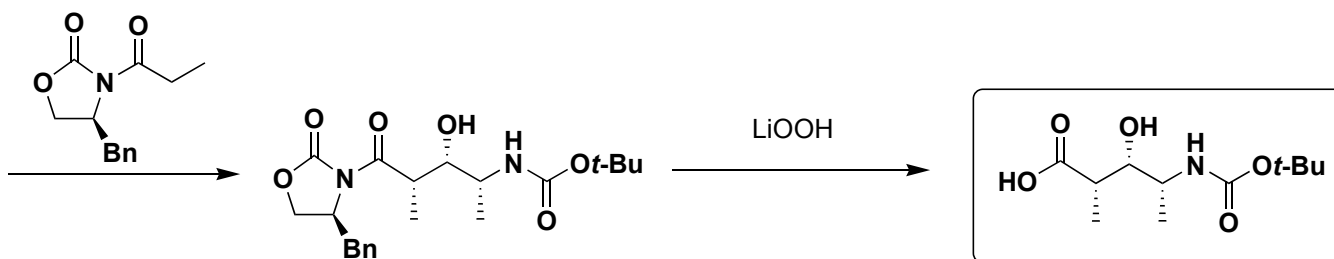
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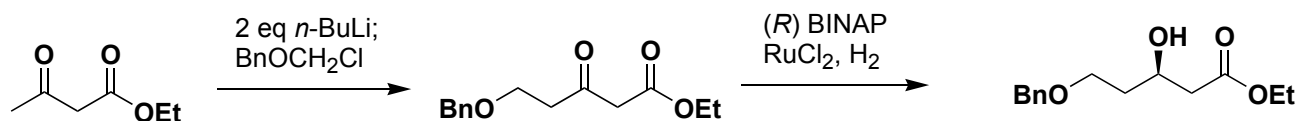
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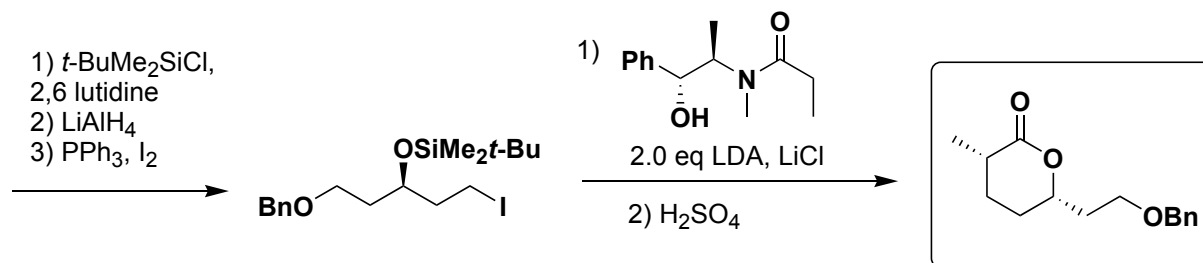
(6)

1) Bu₂BOTf, Et₃N;

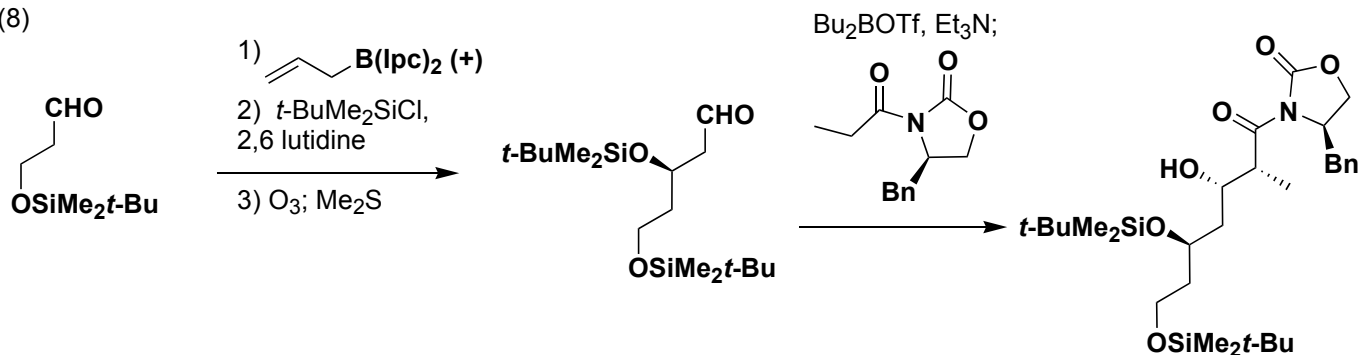
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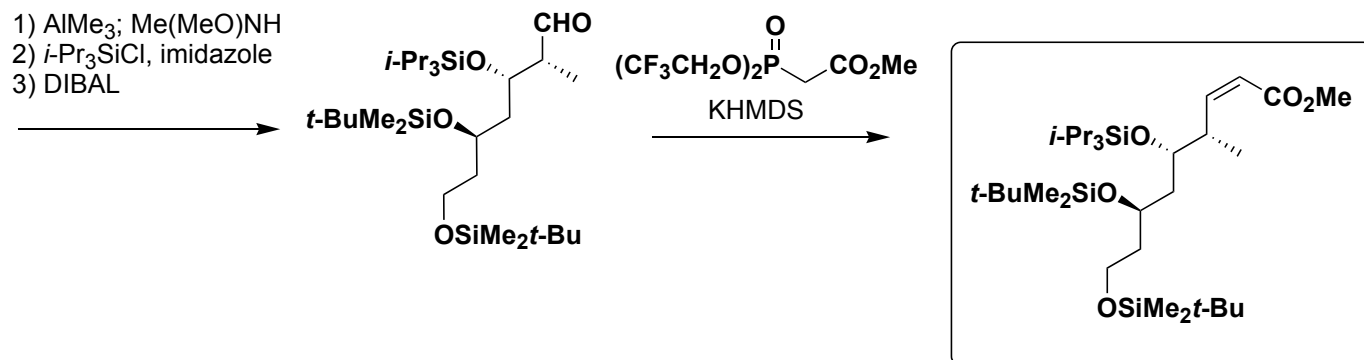
1) *t*-BuMe₂SiCl,
2,6 lutidine
2) LiAlH₄
3) PPh₃, I₂

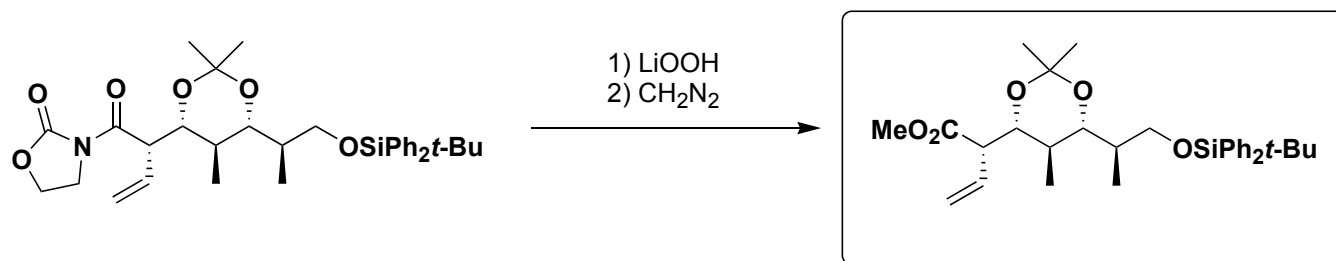
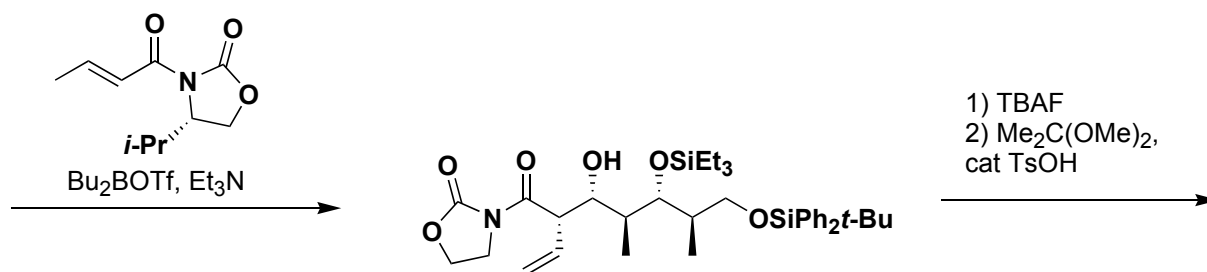
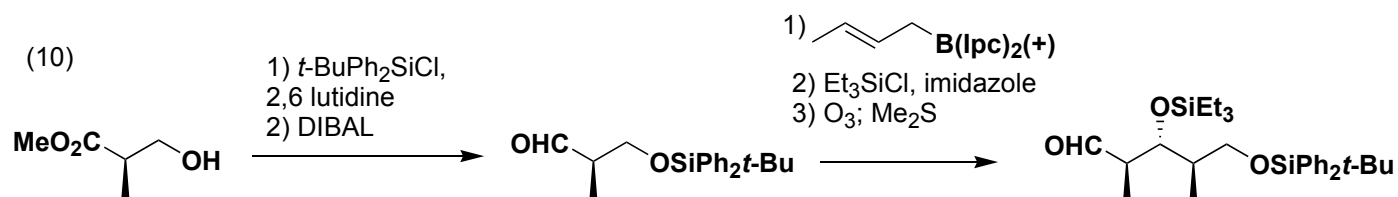
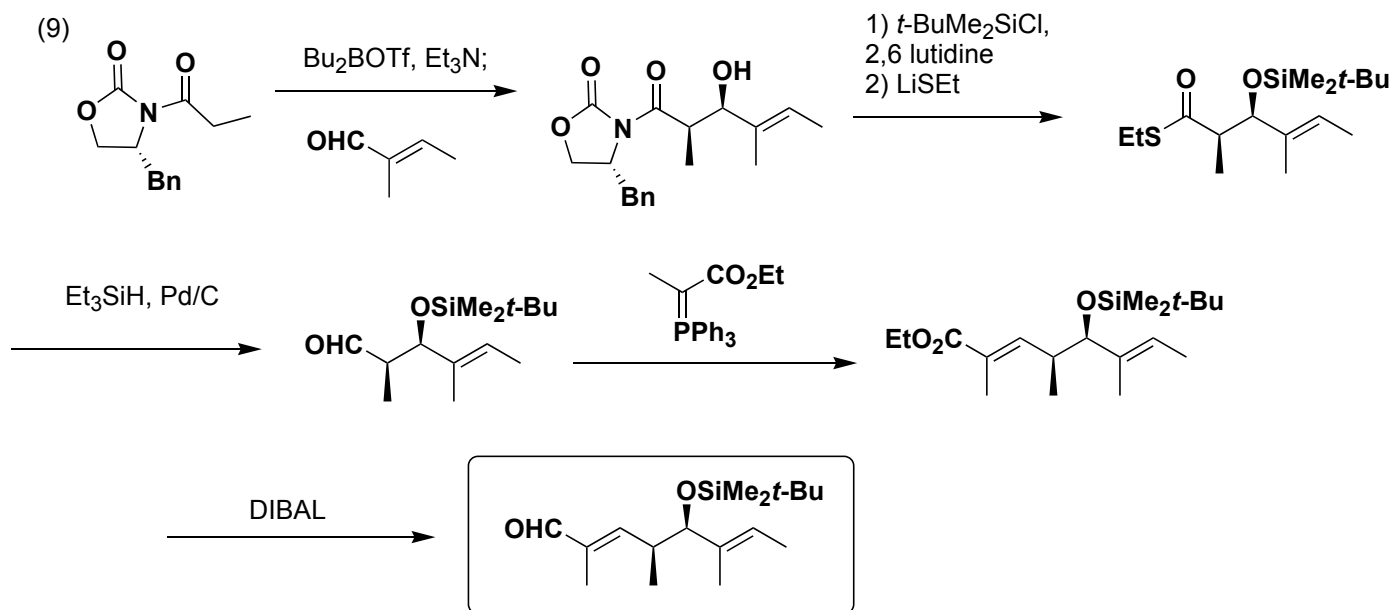


(8)



1) AlMe₃; Me(MeO)NH
2) *i*-Pr₃SiCl, imidazole
3) DIBAL





(11)

