

Massachusetts Institute of Technology

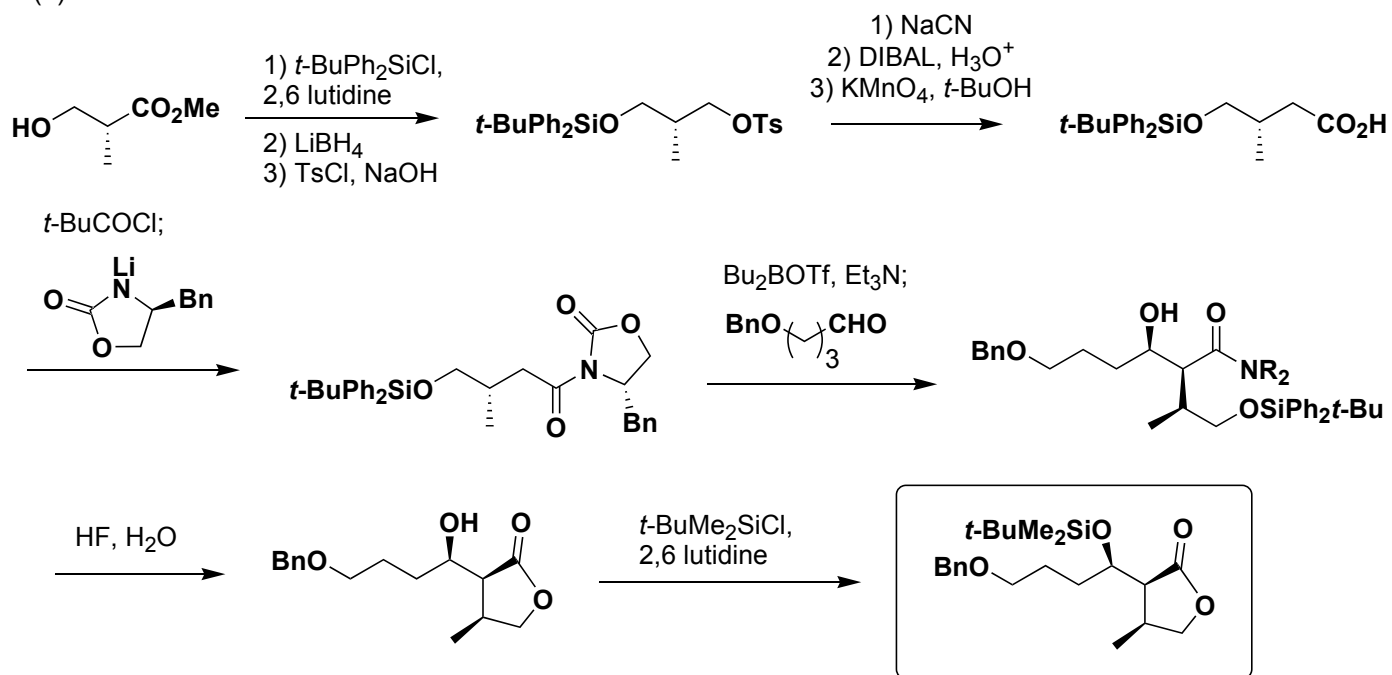
Organic Chemistry 5.512

April 29, 2005
Wesley Austin

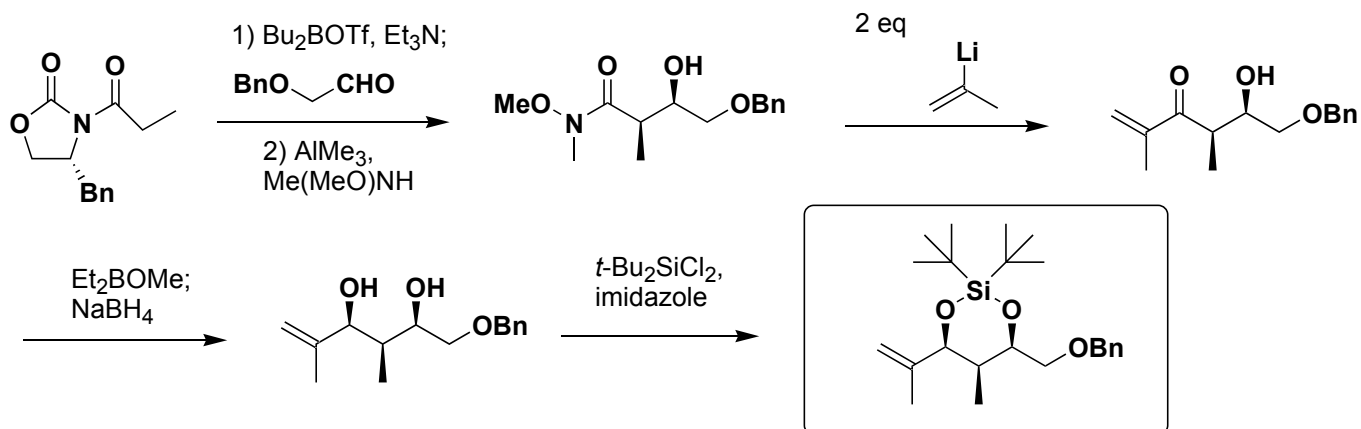
Problem Set 6 Solutions

Stereocontrolled Carbonyl Reduction and Aldol Reactions

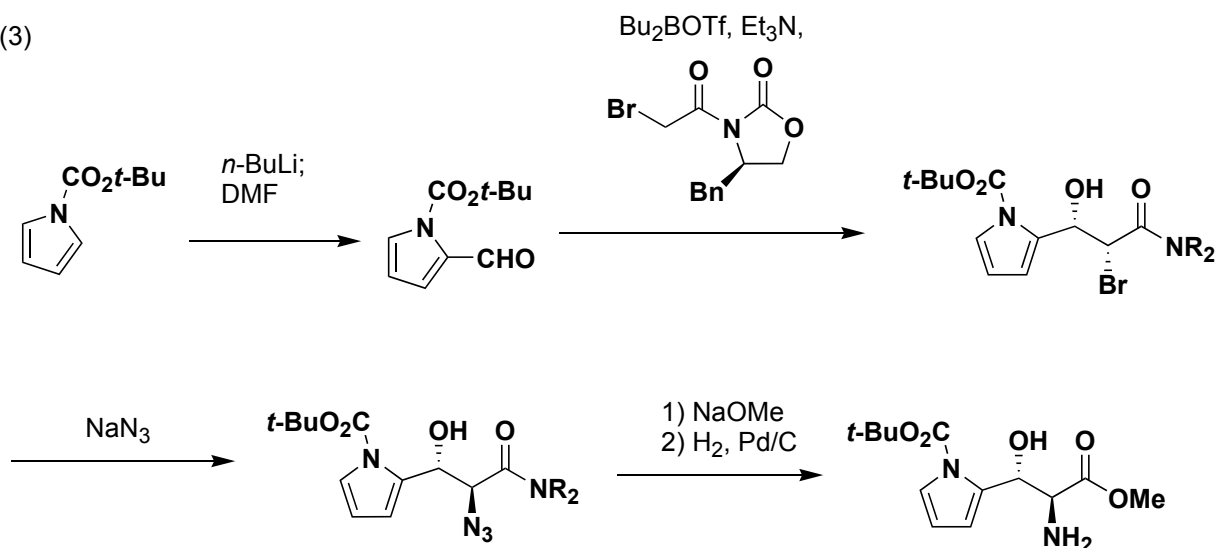
(1)



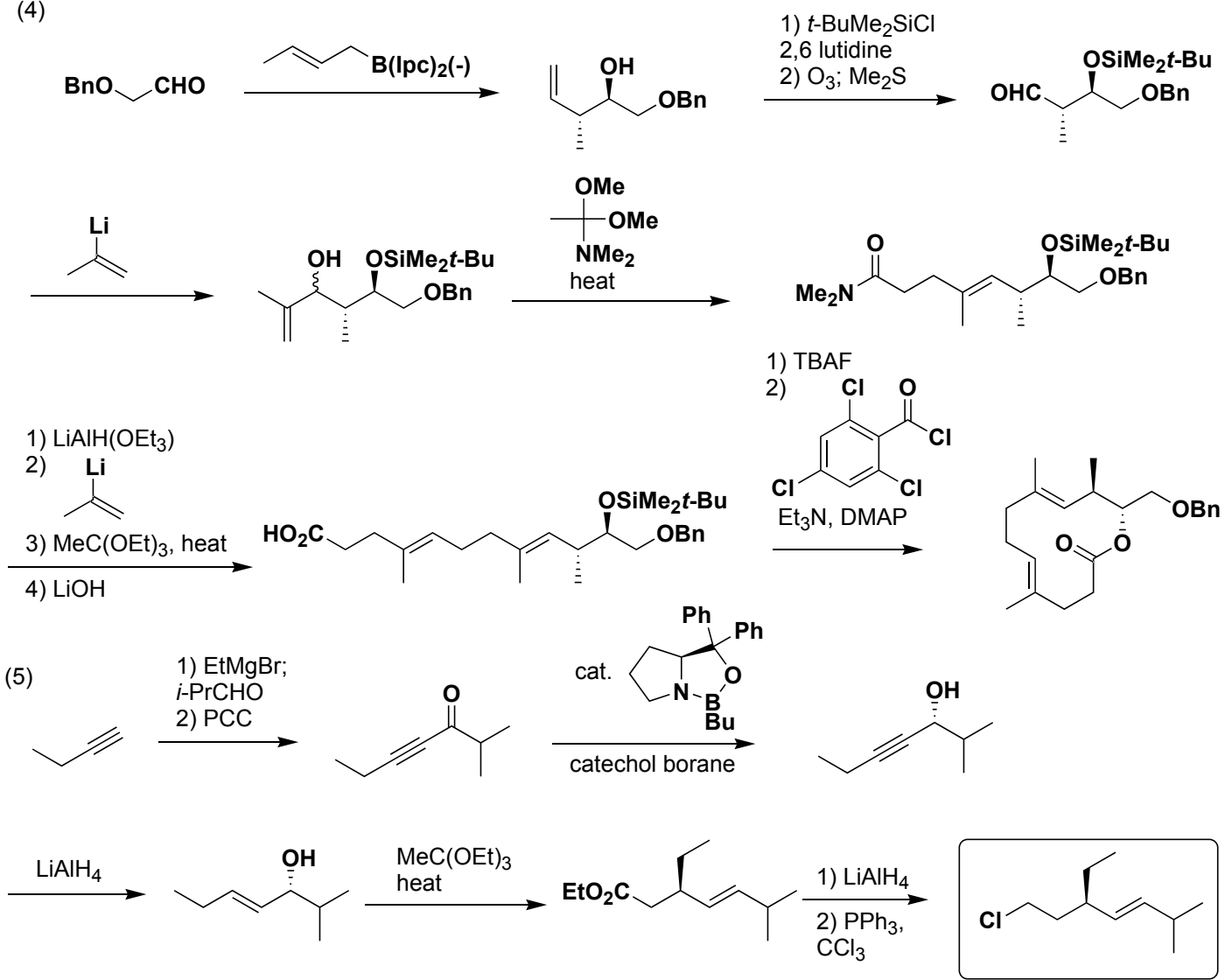
(2)



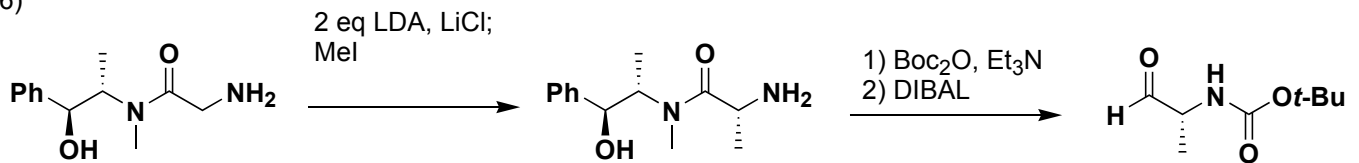
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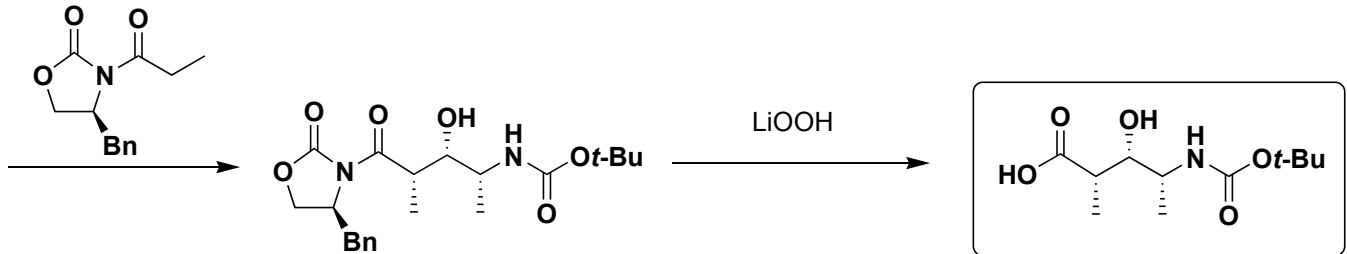
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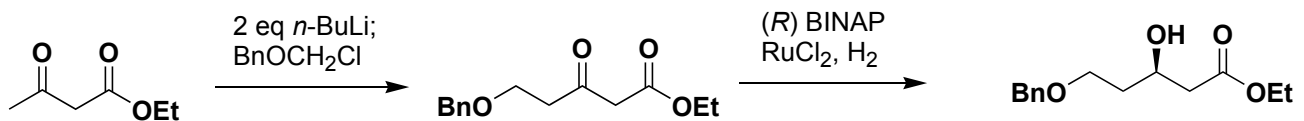
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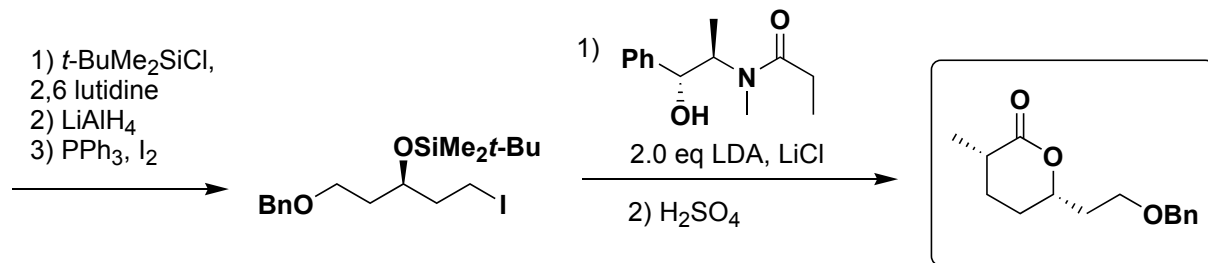
1) Bu_2BOTf , Et_3N ;



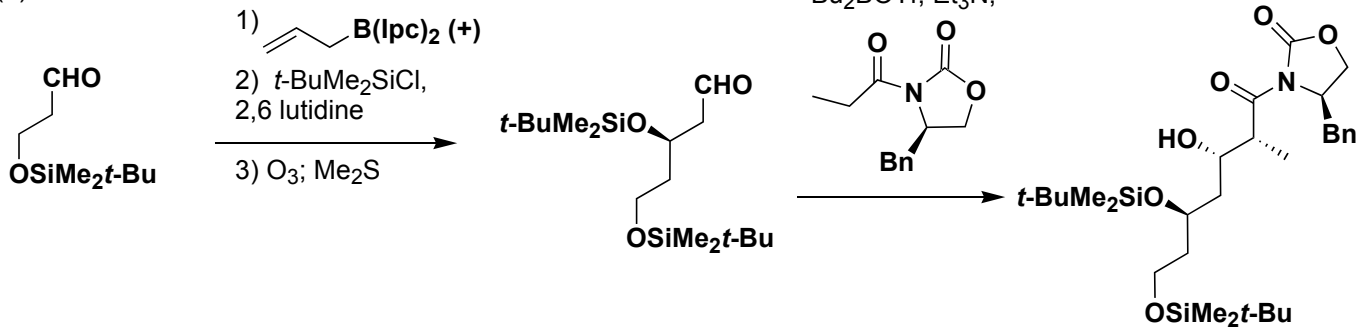
(7)



1) *t*- BuMe_2SiCl ,
2,6 lutidine
2) LiAlH_4
3) PPh_3 , I_2



(8)



1) AlMe_3 ; $\text{Me}(\text{MeO})\text{NH}$
2) *i*- Pr_3SiCl , imidazole
3) DIBAL

