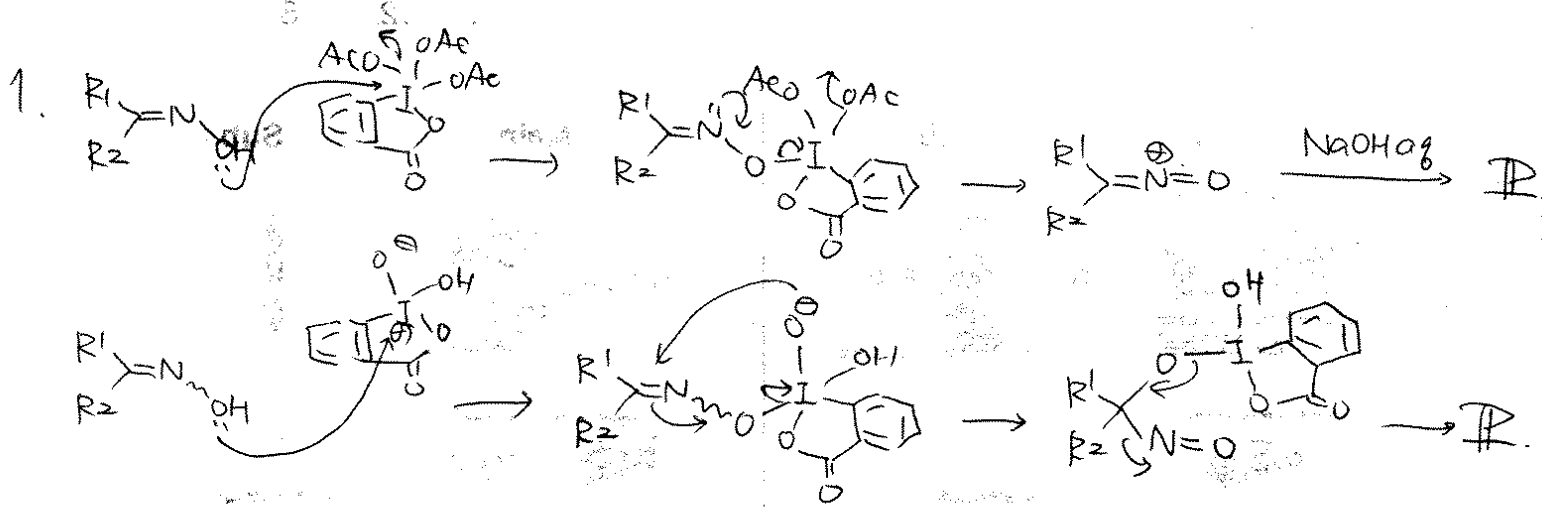
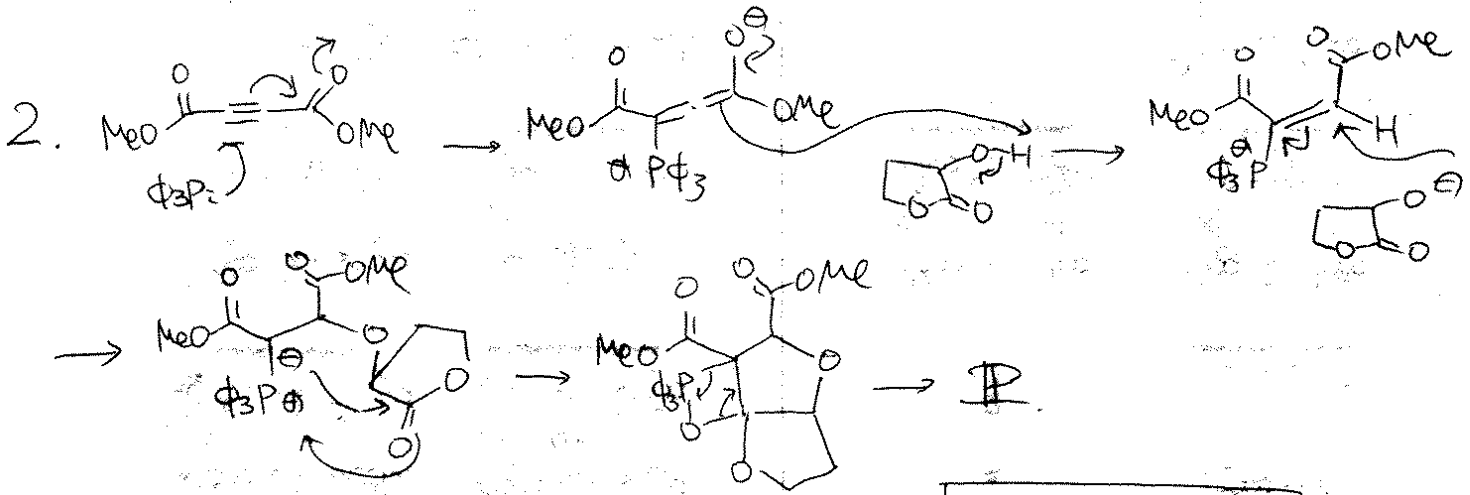


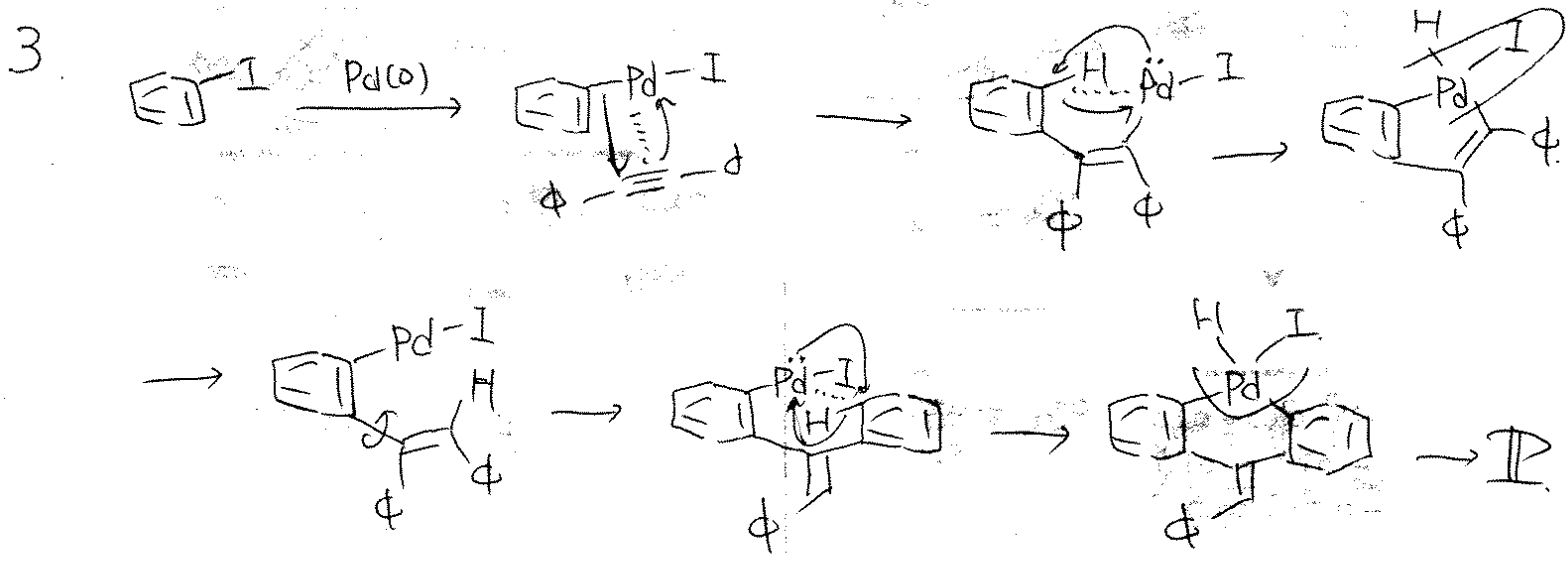
12/05/2001



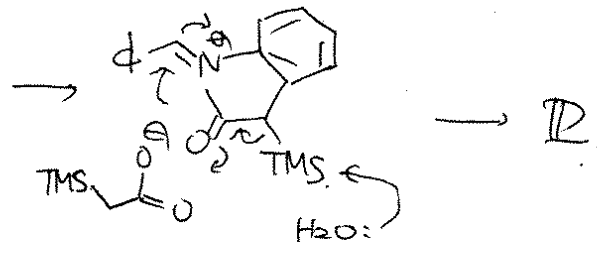
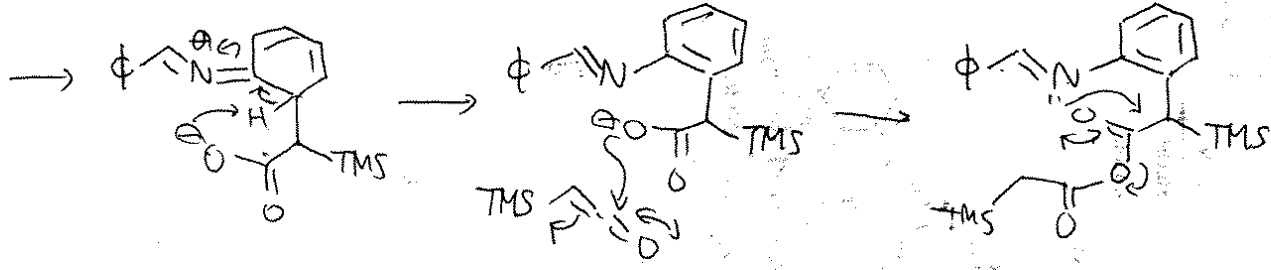
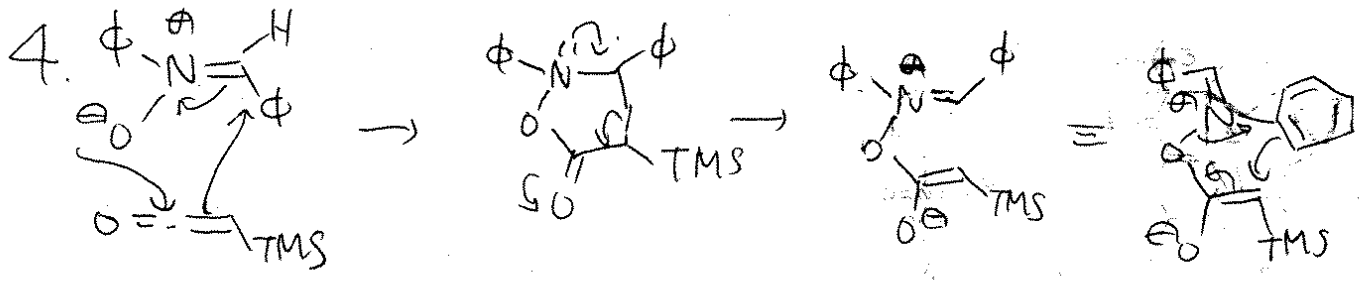
Synthesis 2001, 1903  
Synlett, 1998, 977



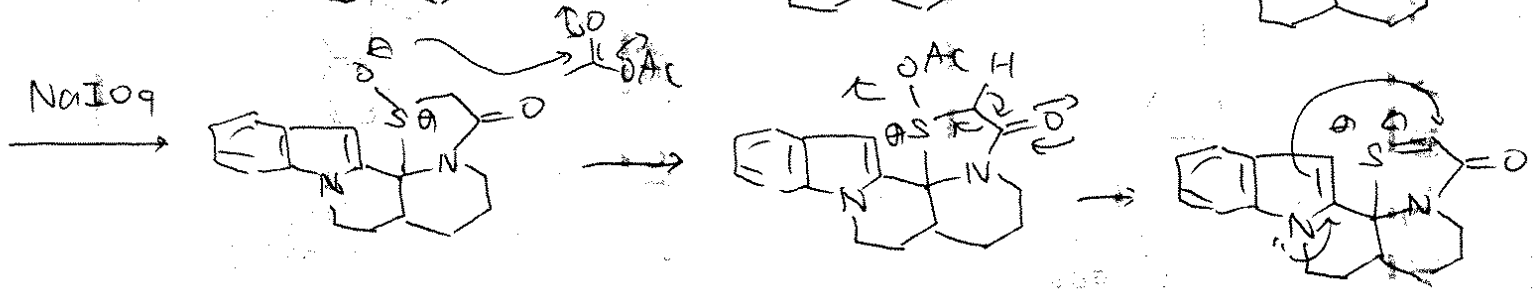
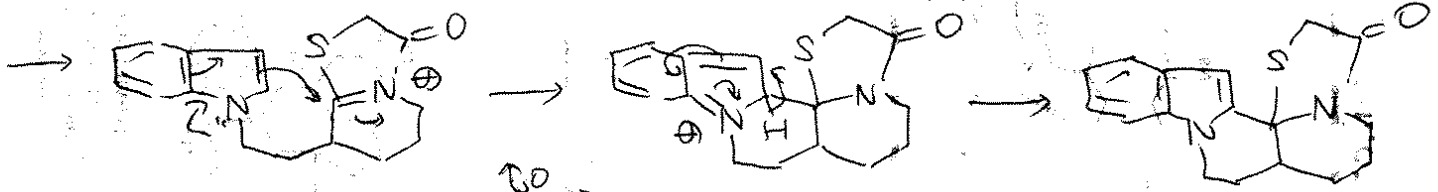
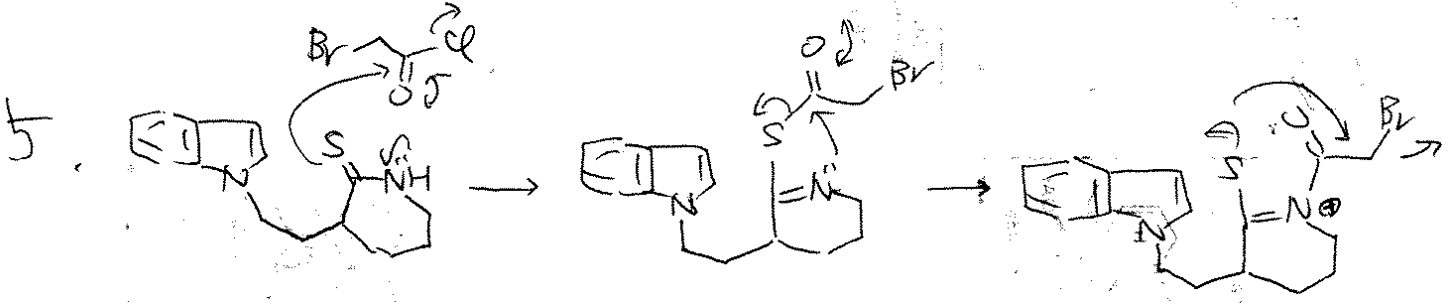
T.L. 1999, 7151



J.O.C. 66, 7372, 66, 2001



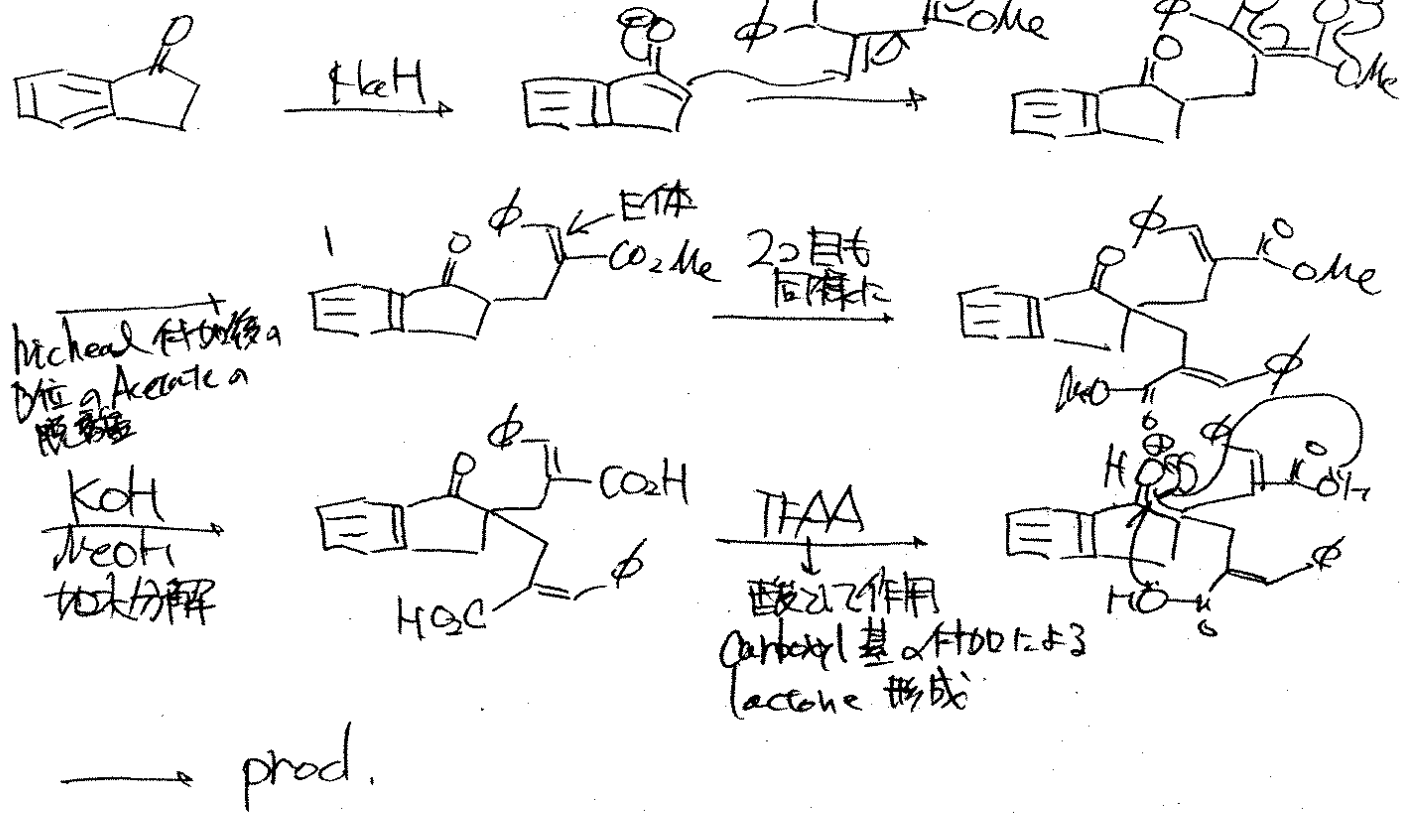
J.O.C. 2000, 65, 2684



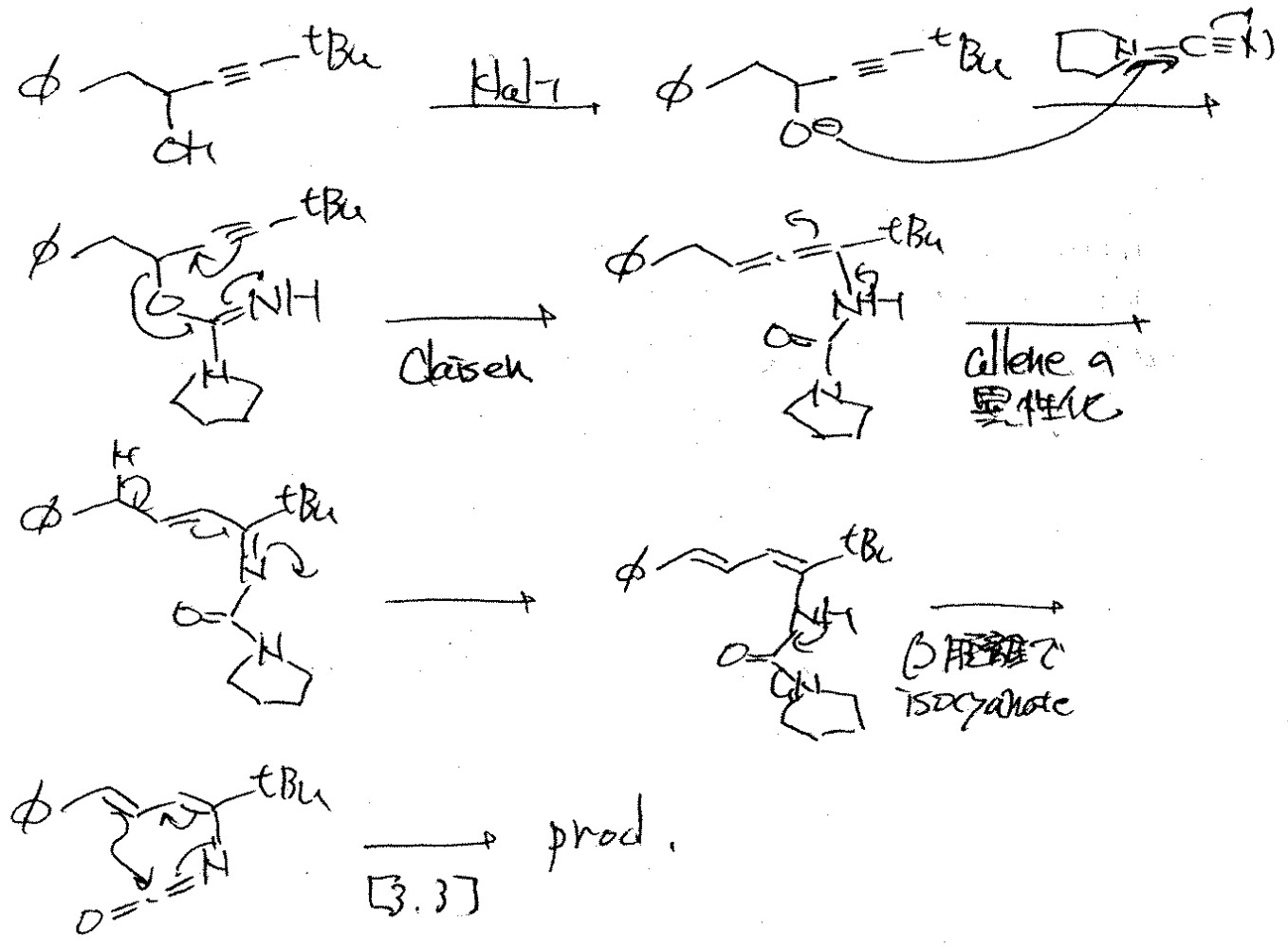
$\Rightarrow$  **R**

12/12/2001

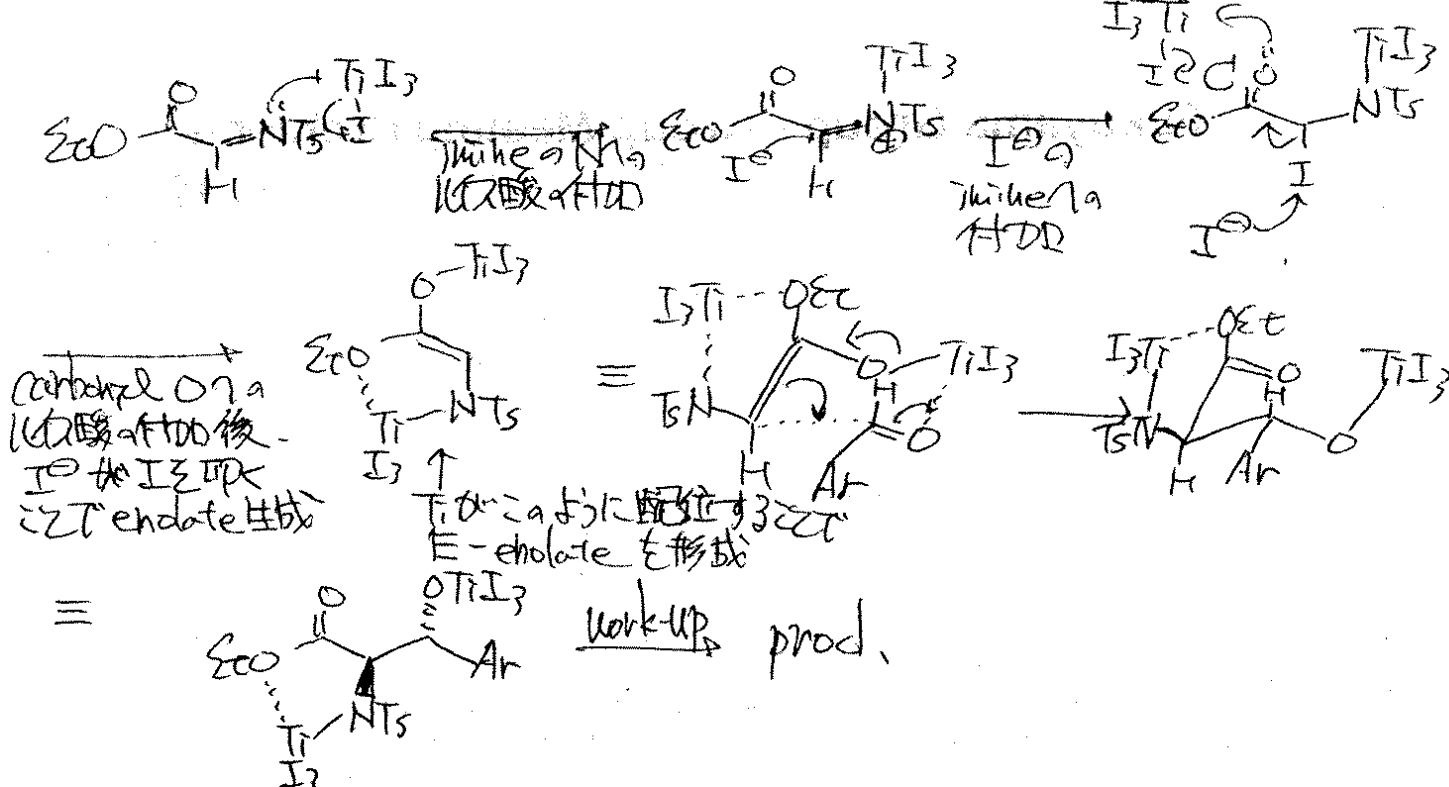
1.



2.

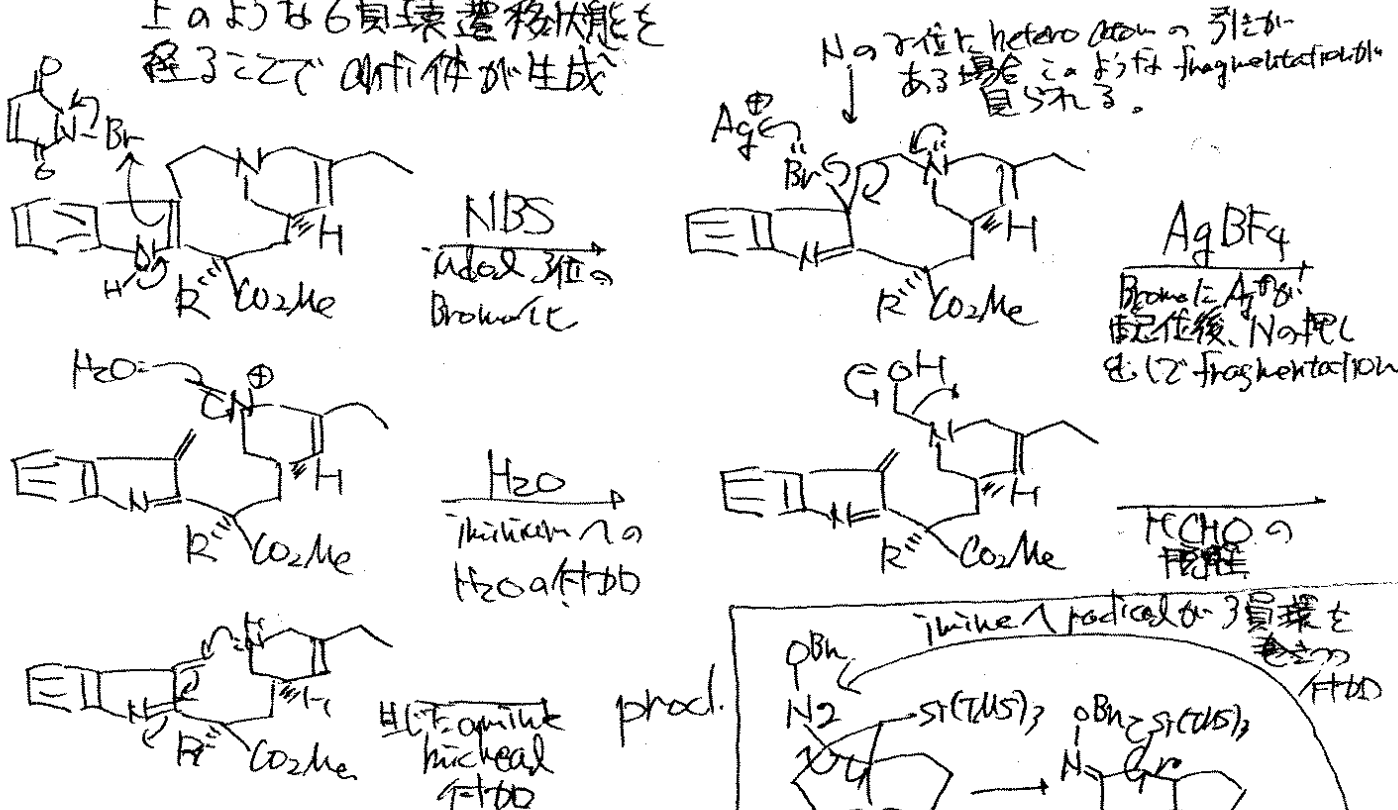


3

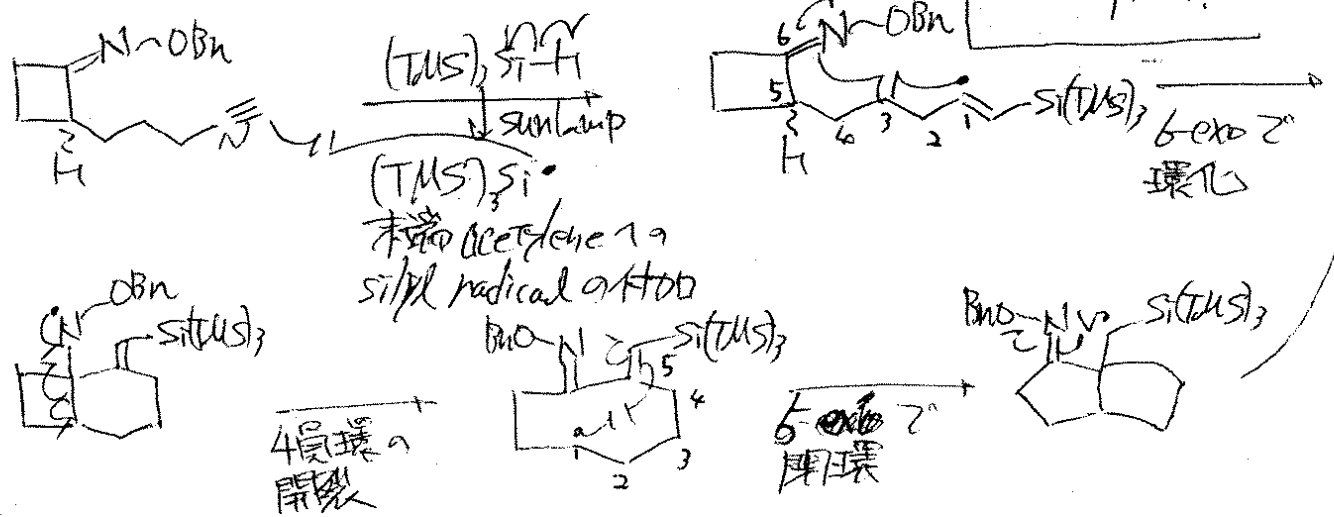


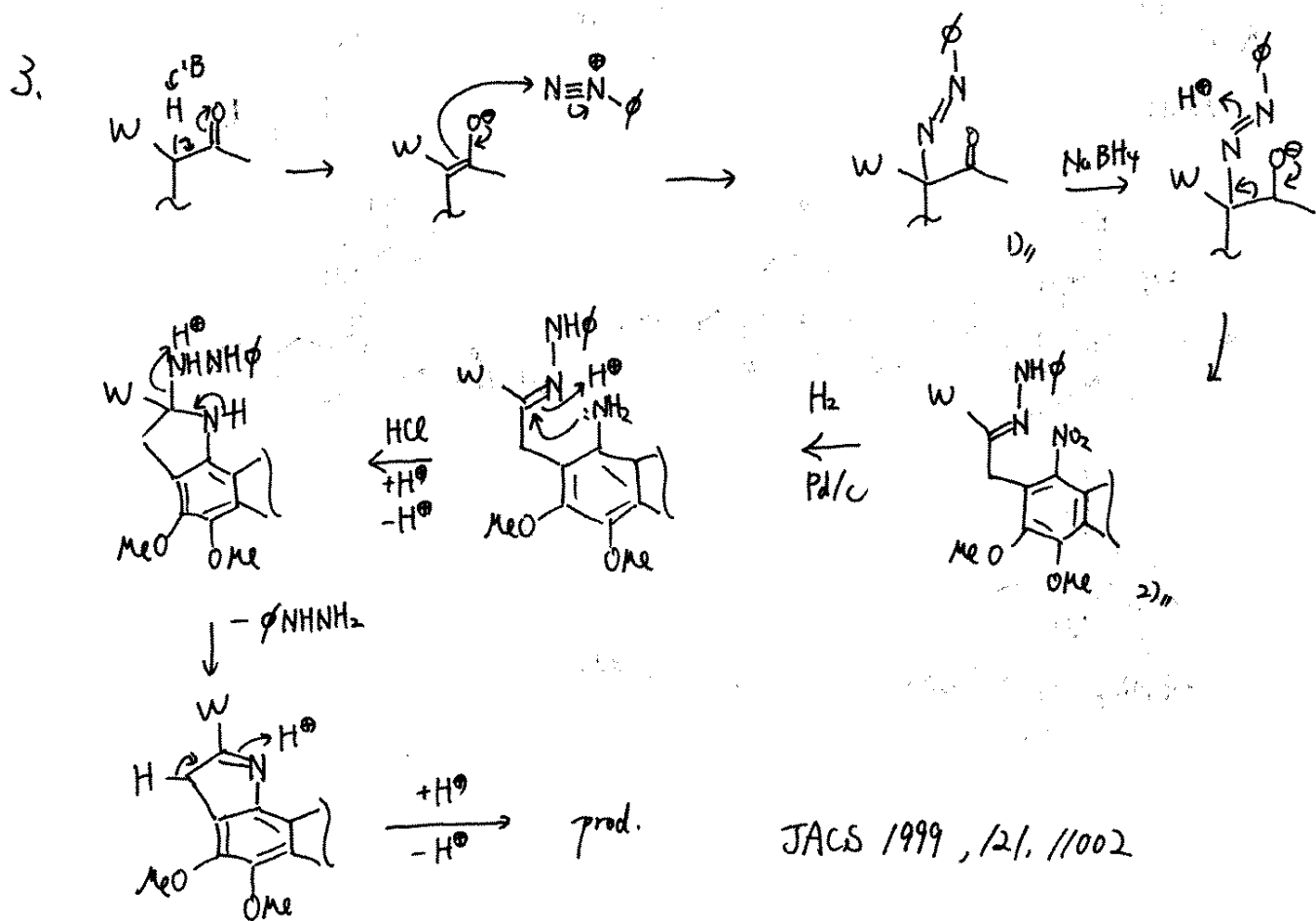
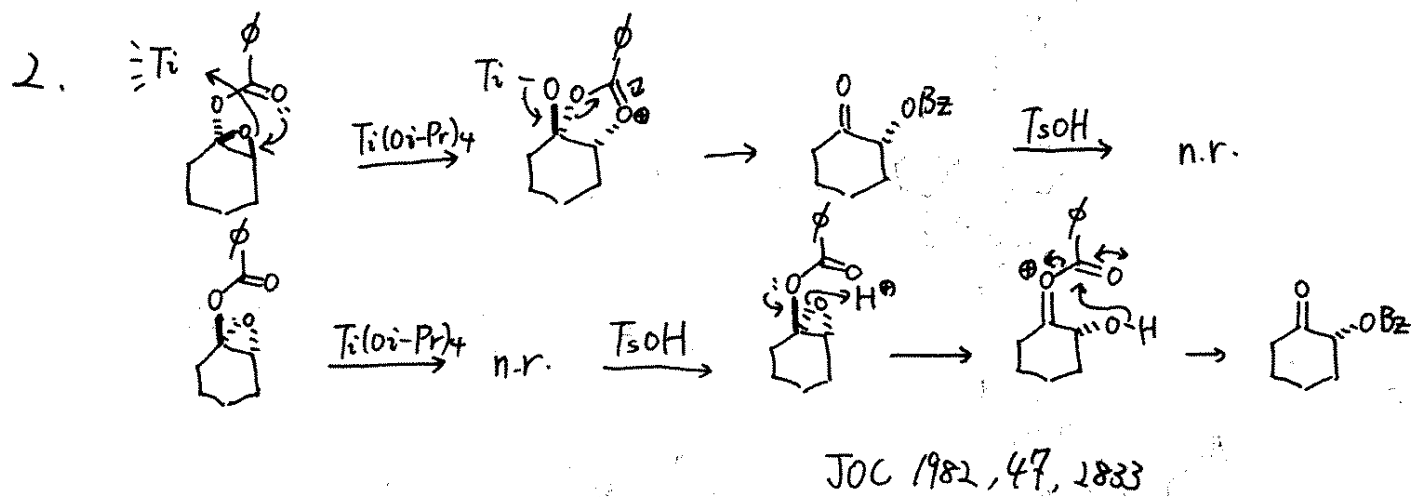
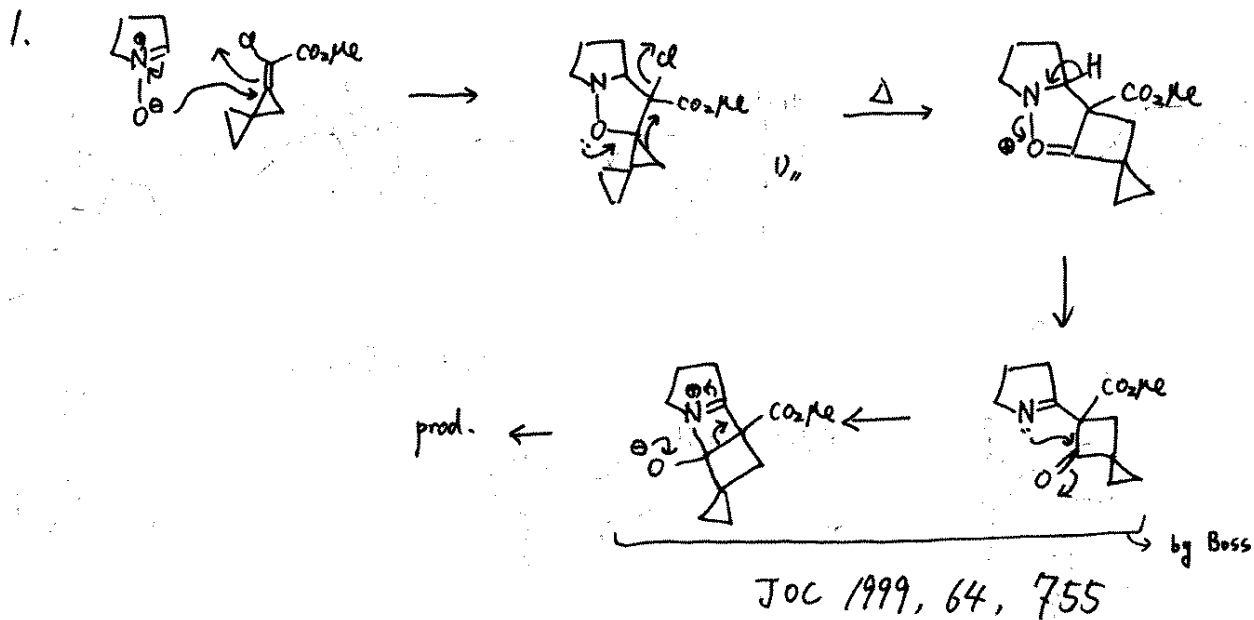
上の6員環遷移が能を  
得る  $\alpha,\beta$  不飽和体が生成

4

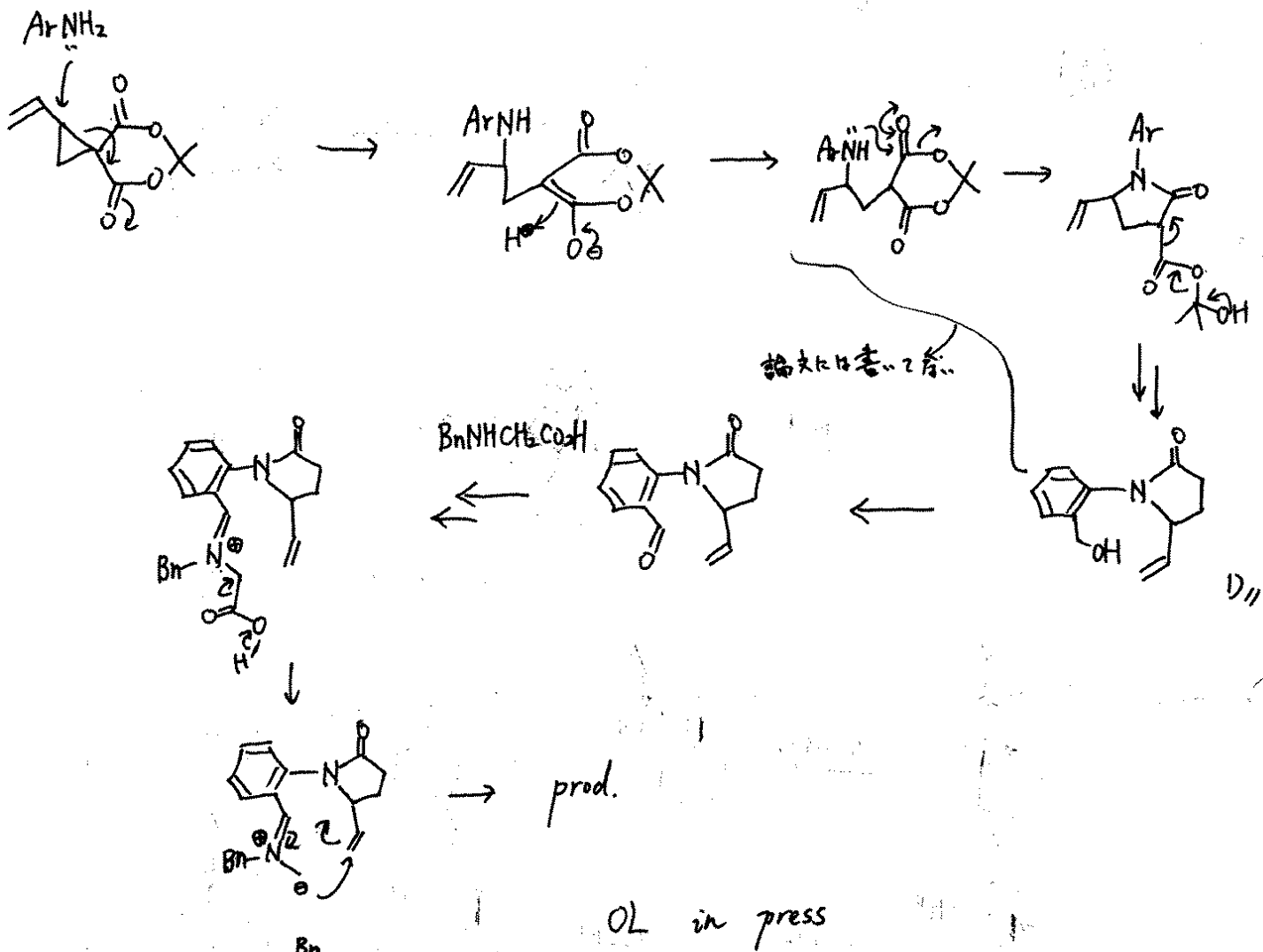


5

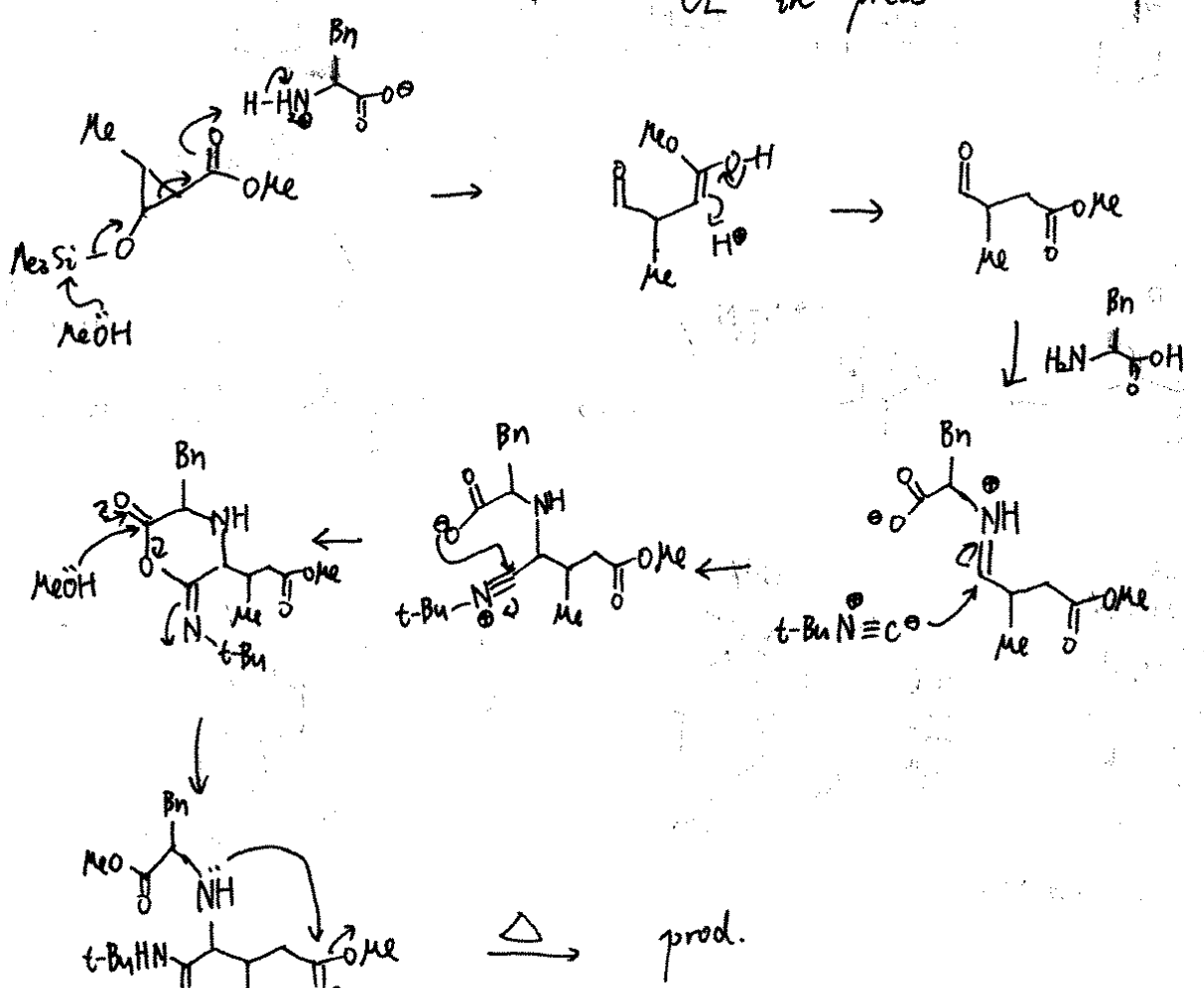




4.



5.



Synthesis 2001, 1649