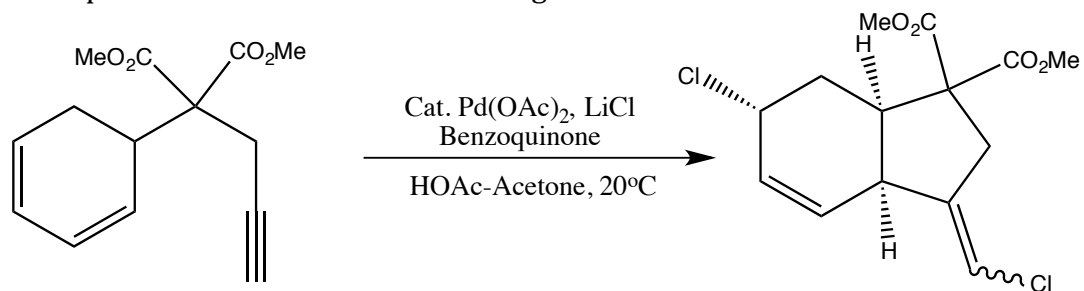
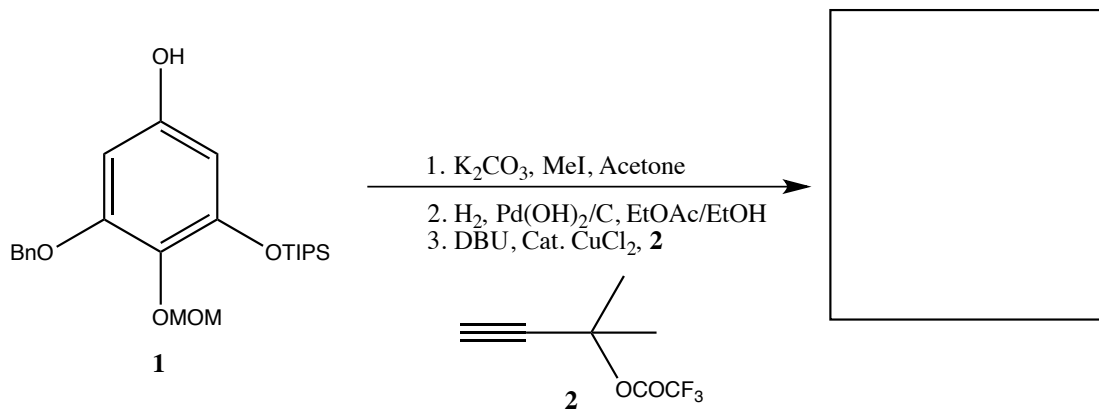


1. Propose mechanism for the following transformation:



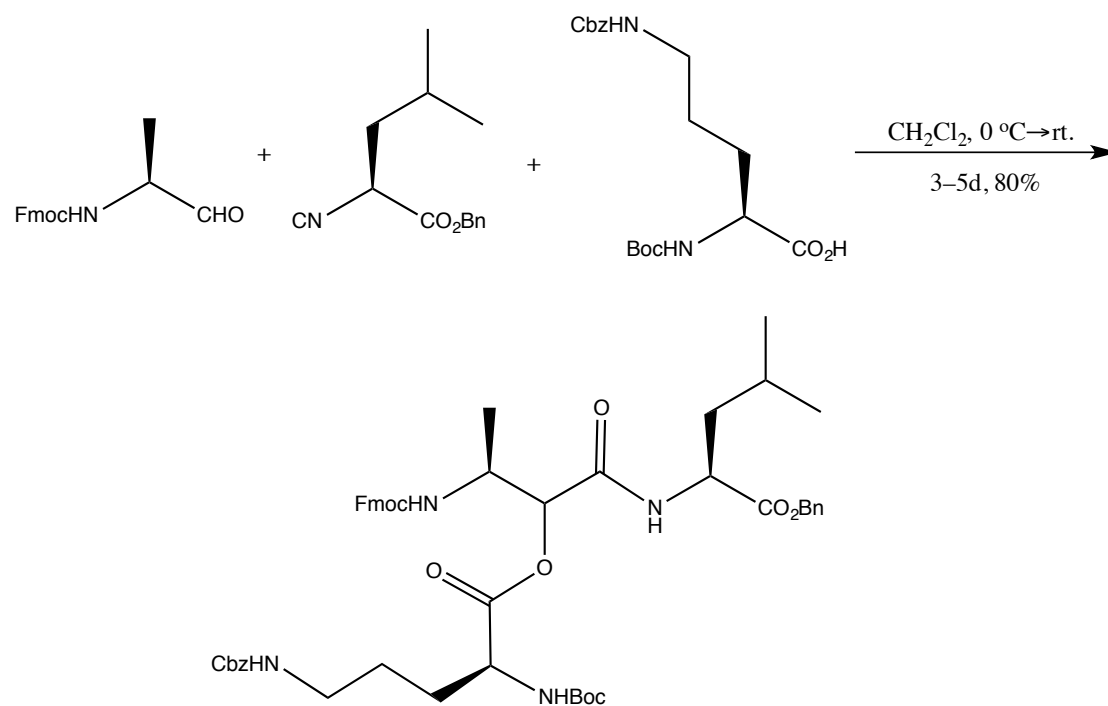
Tetrahedron Letters, **1994**, 35, 5713–5716.

2. Provide the final product for the following series of reactions.



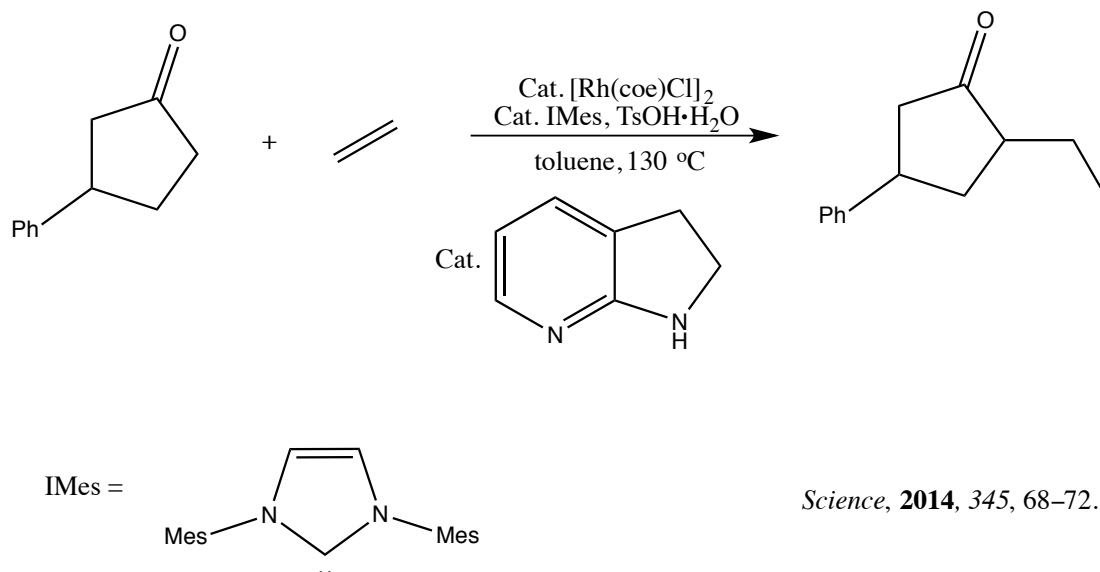
Angew. Chem. Int. Ed. **2003**, 42, 4225–4229.

3. Provide the name and the mechanism for the following reaction.

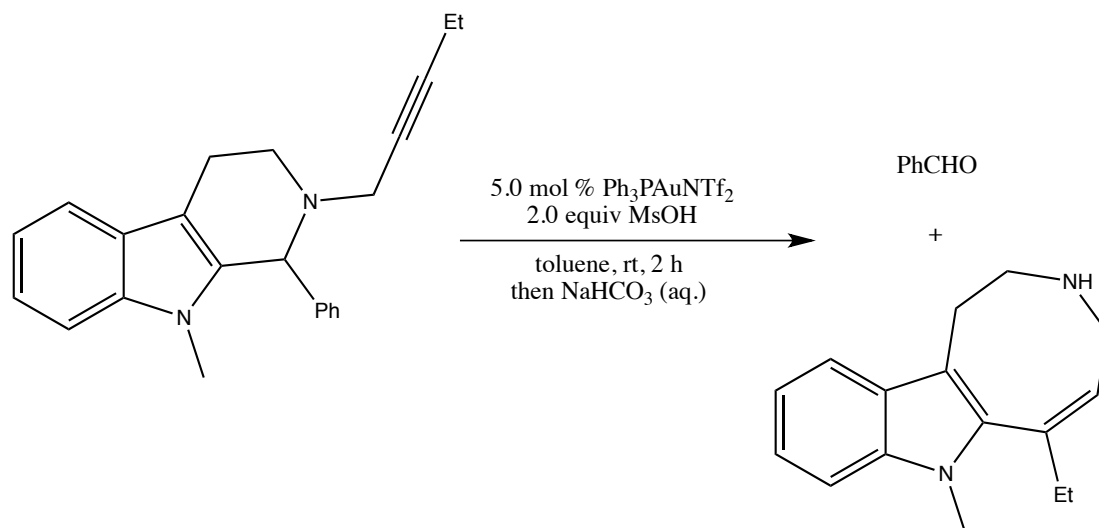


Chem. Commun. **2000**, 985–986.

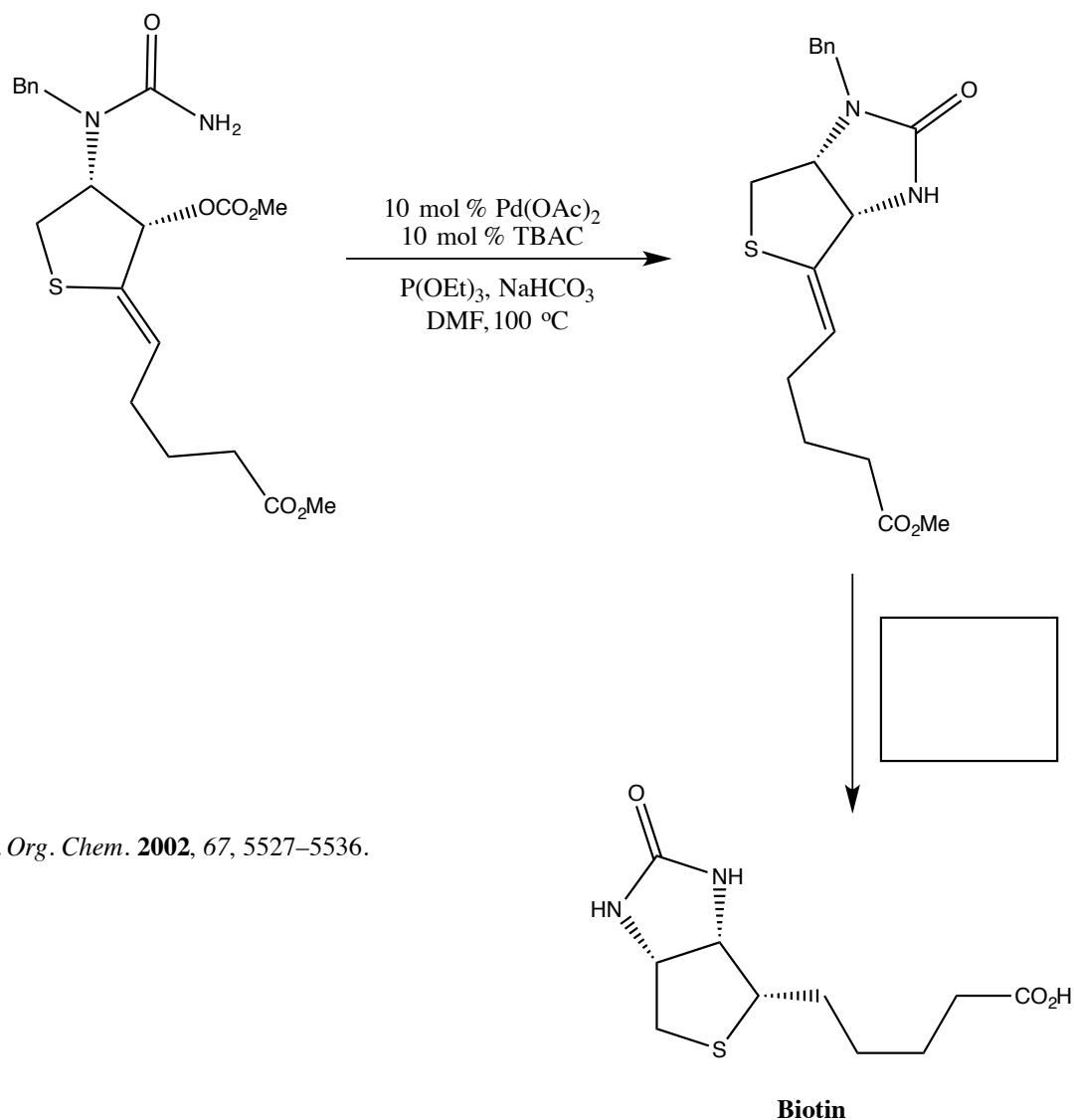
4. The following reaction was recently reported by the group of Guangbin Dong. Propose a suitable mechanism for this transformation:



5. Propose a mechanism for the following reaction.



6. Provide the name and mechanism for the following reaction and propose the conditions to complete synthesis.



J. Org. Chem. **2002**, 67, 5527–5536.