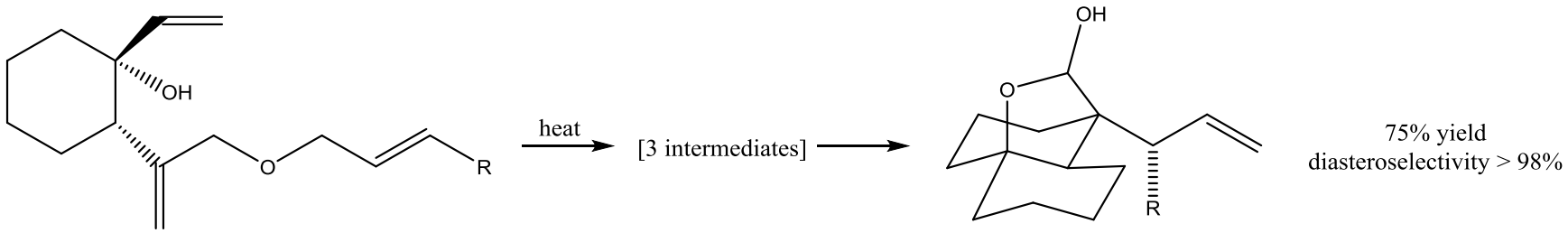
Group meeting – Exercise 10

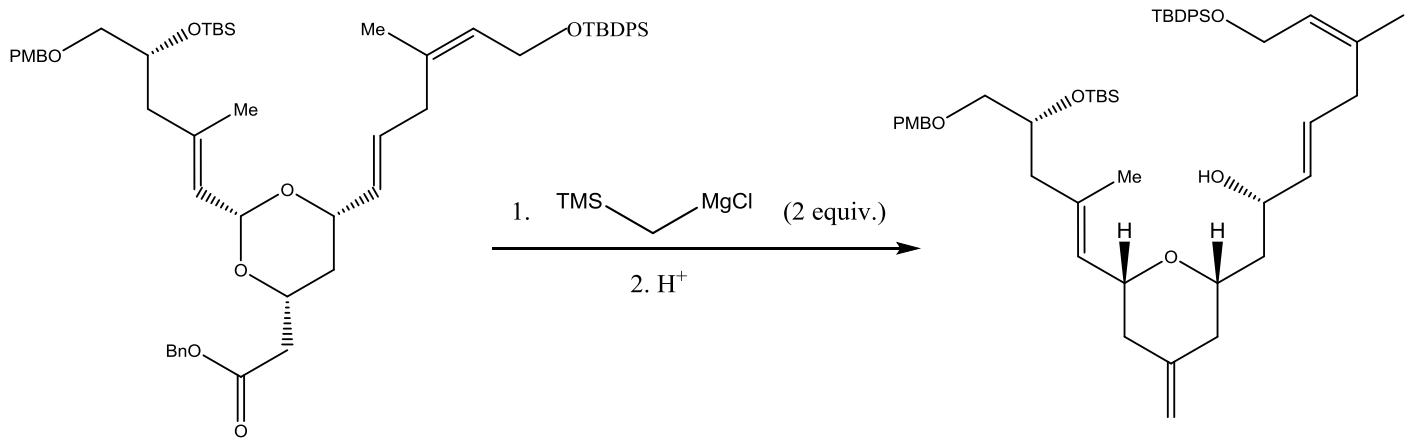
05/Nov/2015

Exercise 10

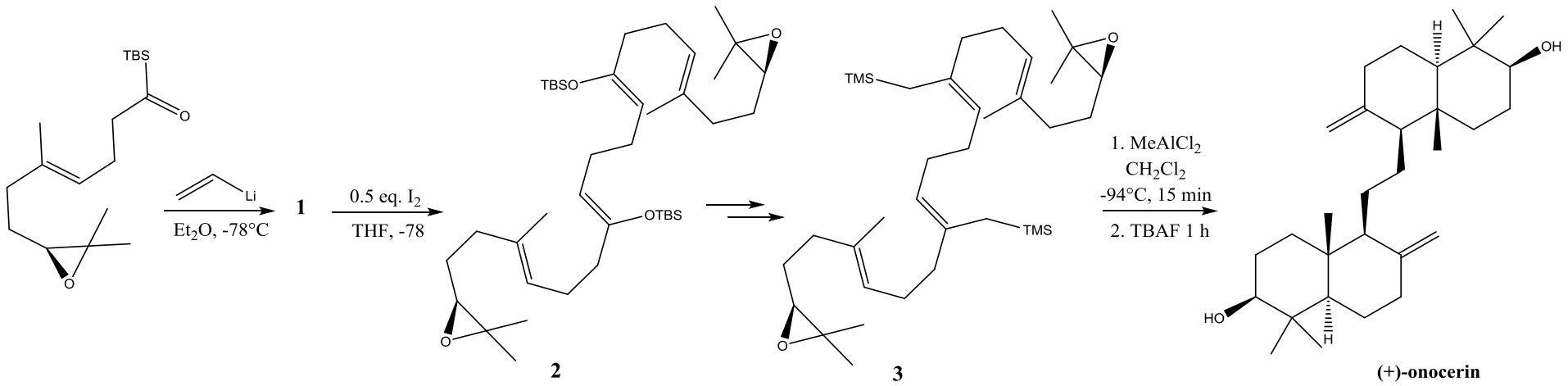
E1. Provide a mechanism for this cascade reaction. Take care of three dimensional structures and transition state representation. Denissova, I. *Organic Lett*. **2002**, *4*, 1371



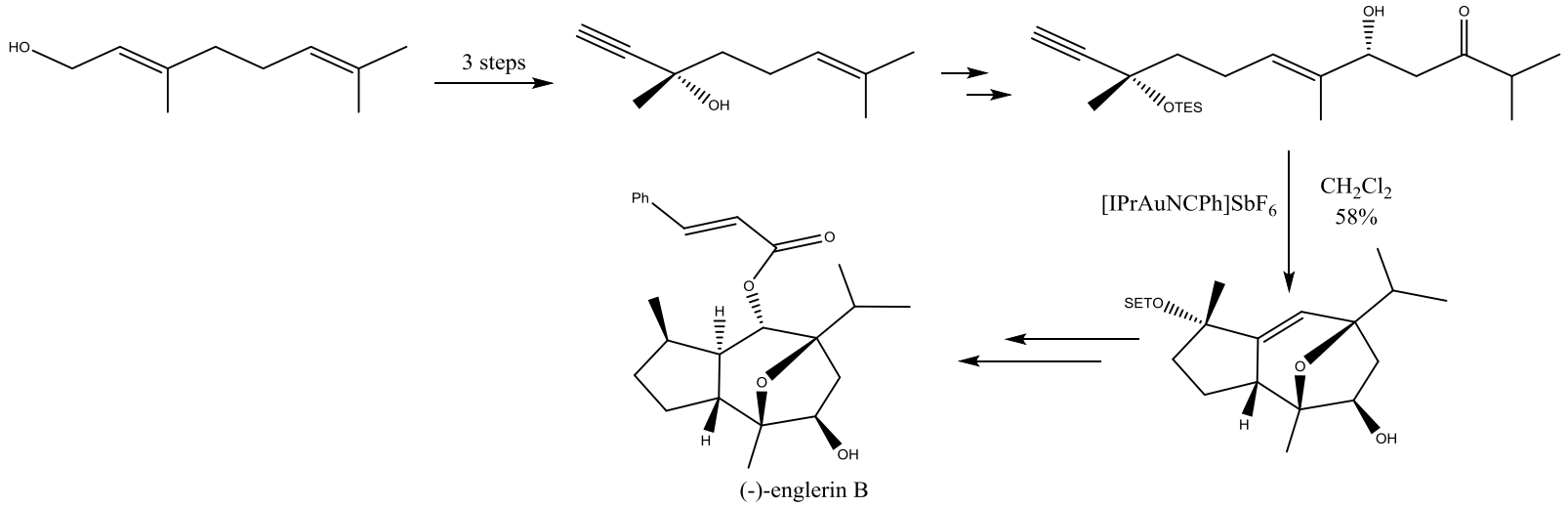
E2. Provide a mechanism which rationalizes the observed stereochemistry. Floreancig, P, E. *Angew. Chem*. **2005**, *44*, 3485



E3. The first two step sequence was proposed to proceed via unisolated anion "1". Propose a mechanism until 2 and a mechanism from 3 to onocerin. Corey. *J. Am. Chem. Soc*. **2002**, *124*, 11290

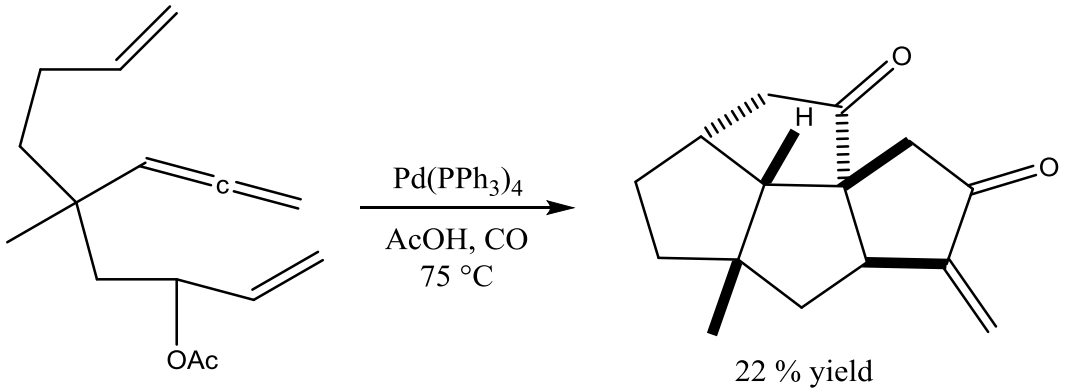


E4. Propose a synthetic way to obtained the alkyne in 3 steps, then, propose mechanism for the gold(I) reaction. Molawi, K; Echavarren, A, M;. *Angew. Chem. Int. Ed.* **2010**, *49*, 3517



E5. Provide a mechanism of this Pd(0)-catalyzed intramolecular reaction of allylic acetates with allenic moietie.

Yamamoto, K; Doi, Takayuki; *J. Org. Chem.* **1996**, *61*, 2602.



22 % yield