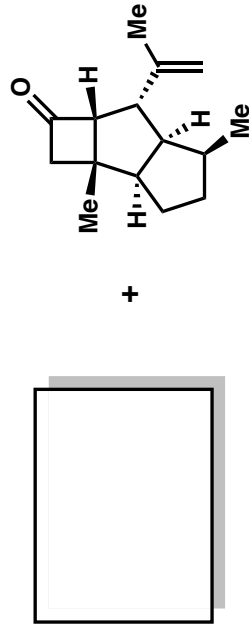
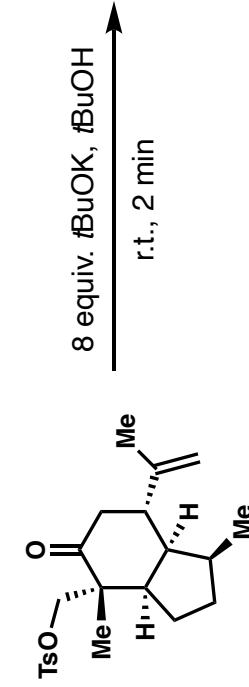


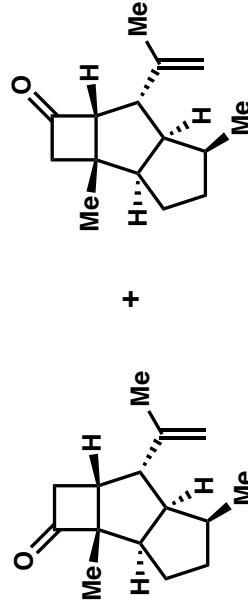
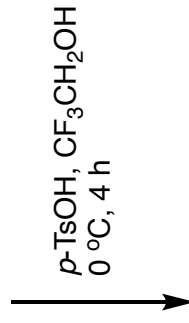
1. Provide a mechanism for the following transformations and intermediate. What is the named reaction?

Koreeda, M. *Org. Lett.*, **2002**, 4, 21, 3755.



Undesired Product

5:4 ratio



1:1 ratio  
90% yield

2. Provide a mechanism for the following transformation.

*J. Am. Chem. Soc.* **2012**, *134*, 9, 4104-4107.

