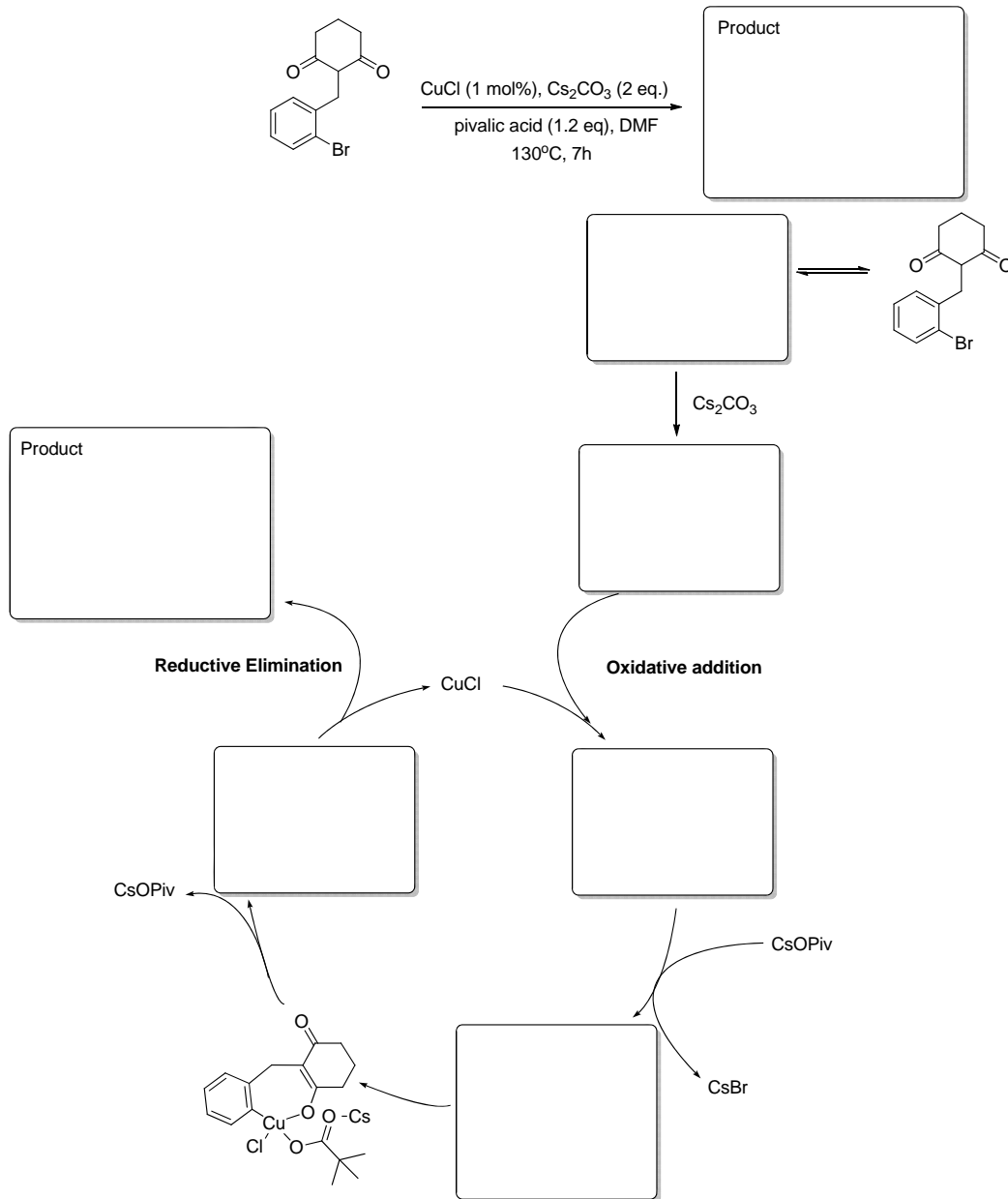




Problem Set No. 6

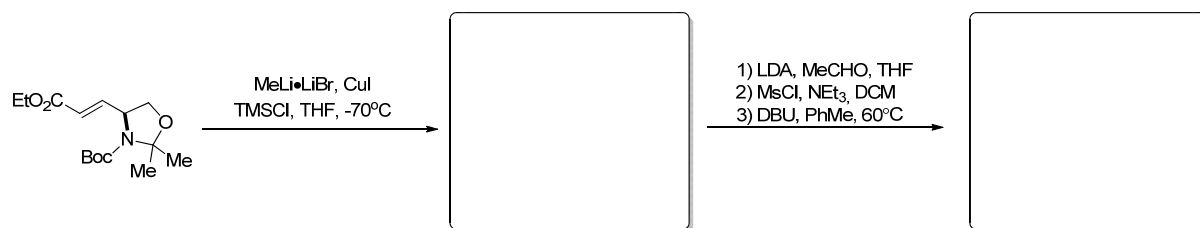
1. Provide the following intermediates and product. What is the name of this reaction?



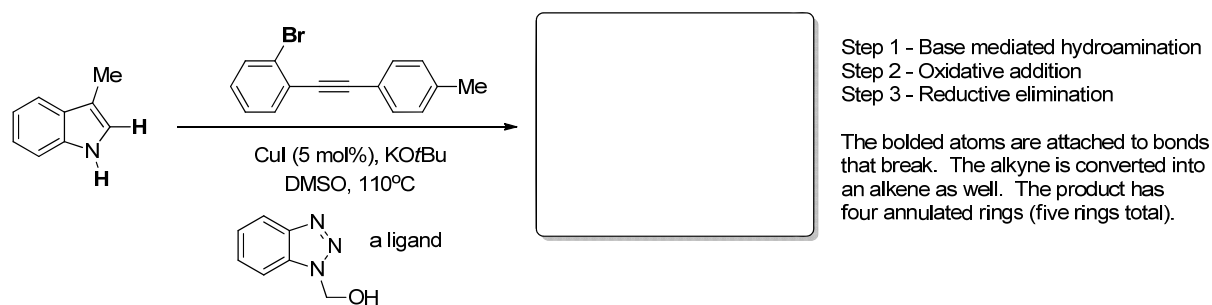
2. Provide the reagents



3. Draw the products



4. Draw the product.



5. Read Hoveyda et al. *Angew. Chem. Int. Ed.* **2012**, *51*, 6618–6621. How did the authors use their method to synthesize a fragment of aza-epithialone A? How do the authors justify their observed stereochemical induction?