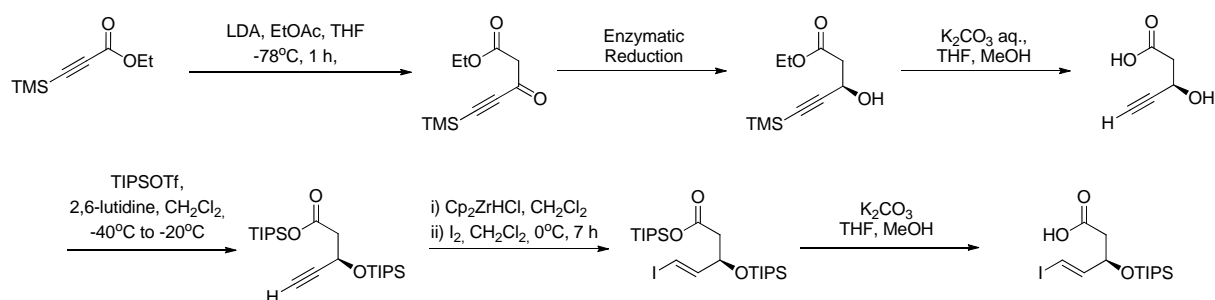


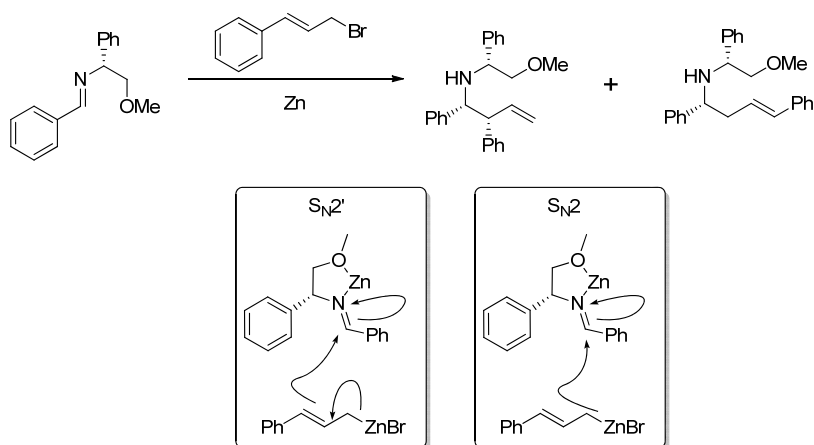


Problem Set No. 4_Key

1. Fill in the missing structures and provide an arrow pushing mechanism for the reaction using the Schwartz reagent.

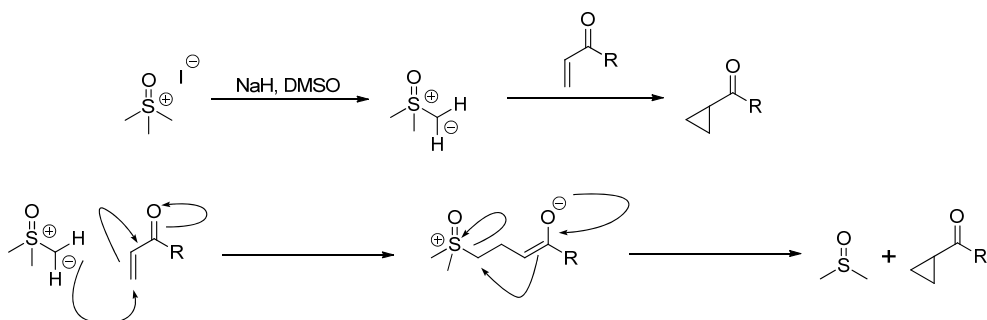


2. Provide a mechanism for the following reaction making sure to explain both products and observed stereochemistry.

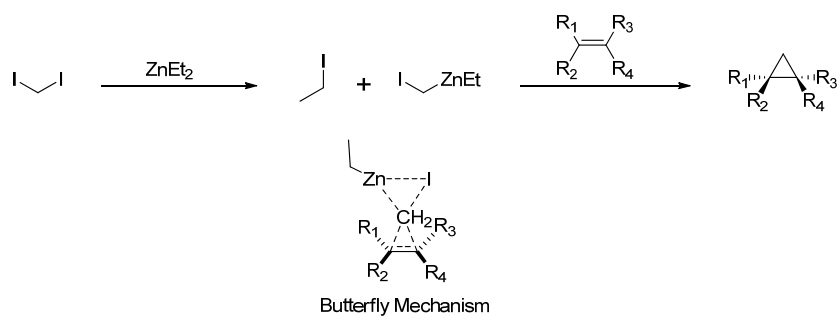


3. Provide an example from the literature and a mechanism for the following reactions:

a. Corey-Chaykovsky Cyclopropanation



b. Furukawa-Simmons-Smith Cyclopropanation



4. What is the name of the following reaction? Draw the products formed and their stereochemical relationship. Draw the nucleophilic zinc species that is formed.

Reformatsky Reaction

