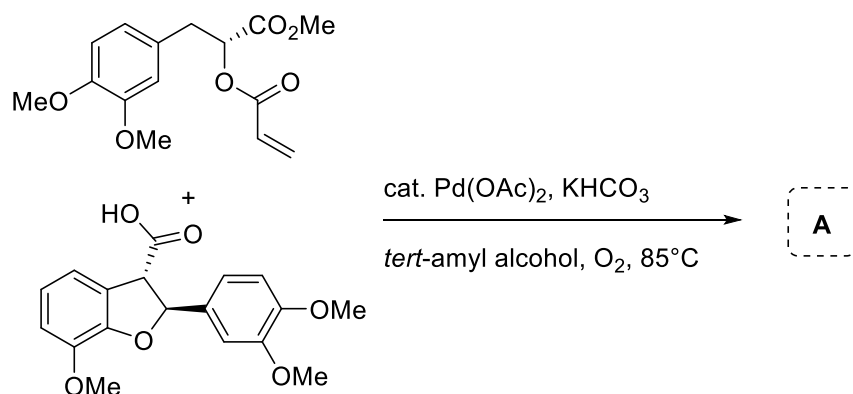
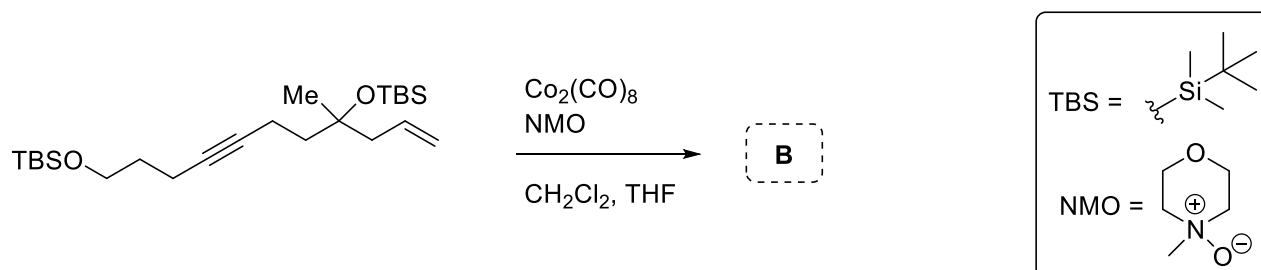




Spot the reactivity pattern!

What is the structure of **A**?

Provide a reasonable mechanism showing the most relevant intermediates.



- What is the name of this transformation?
- Illustrate its mechanism by drawing key intermediates.
- Product **B** is formed with a diastereomeric ratio of 97:3. Try you come up with a justification for this selectivity?

Note: NMO is a frequently used additive for this transformation. It accelerates the reaction (by oxidizing one CO ligand to CO_2 helping to free a coordination site on Co, and can thus be ignored in your analysis.