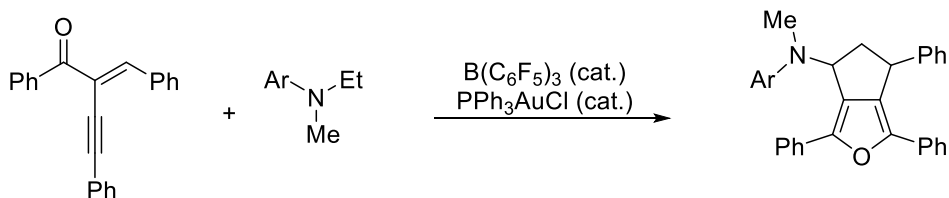
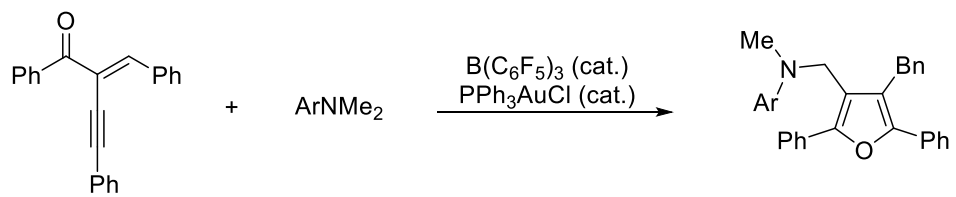
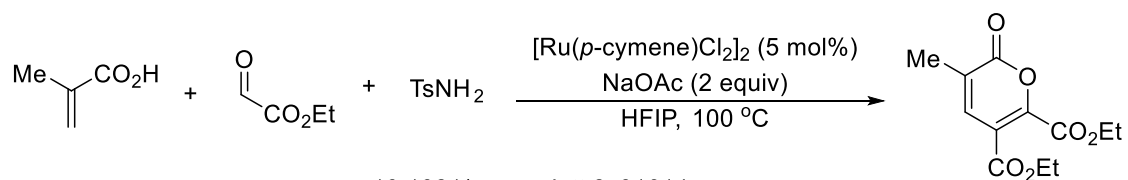


1) Please provide mechanism for the following reactions



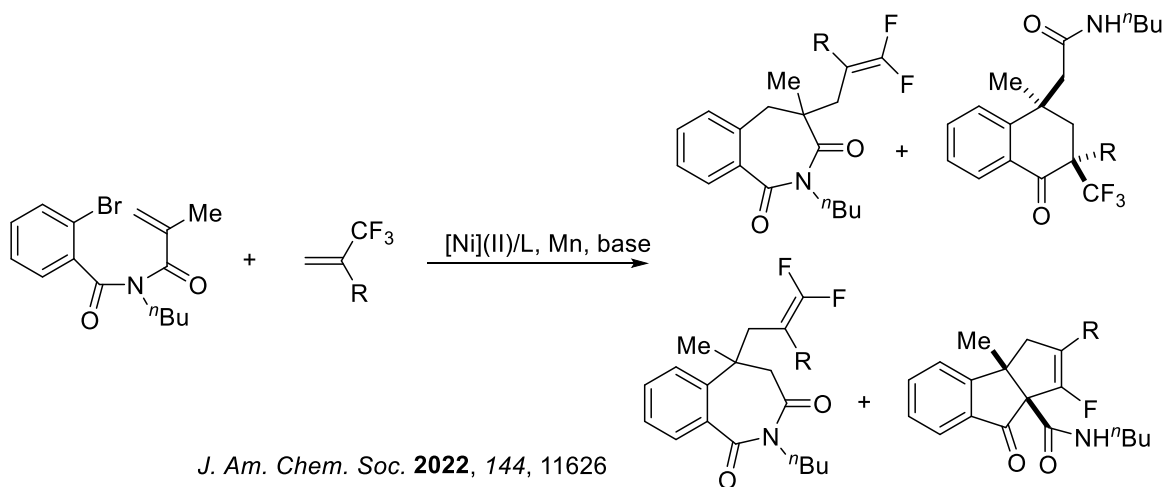
Angew. Chem. Int. Ed. **2022**, e202208427

2) Please provide mechanism for the following reaction



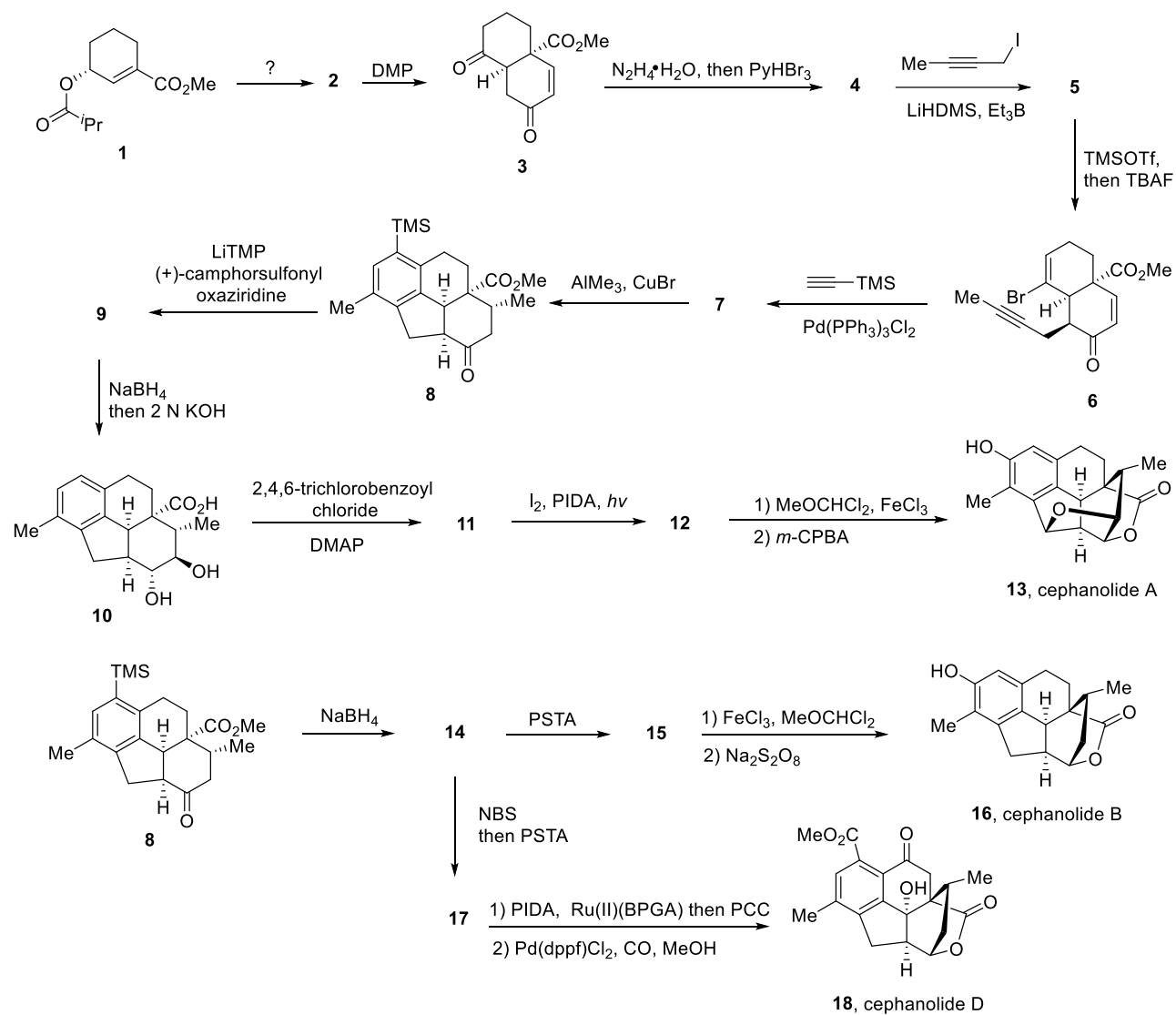
10.1021/acs.orglett.2c01614

3) Please provide mechanism for the following reaction



J. Am. Chem. Soc. **2022**, *144*, 11626

4) Please provide missing compounds, provide reaction conditions for the transformation of **1** to **2** and propose a mechanism in the formation of **7** and **18**.



J. Am. Chem. Soc. **2022**, *144*, 10640