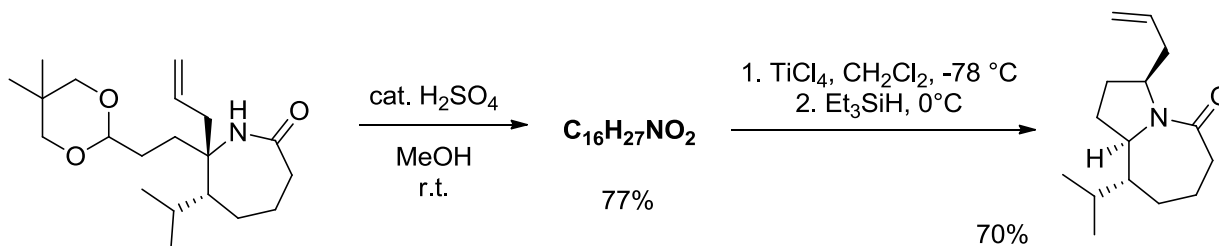


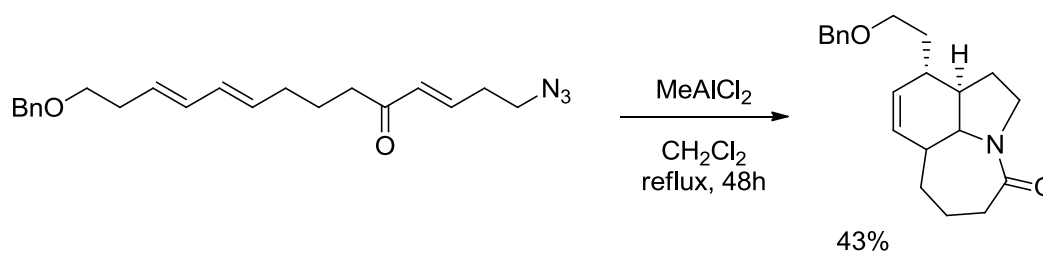


For each exercise, please propose a reasonable pathway leading to the product !

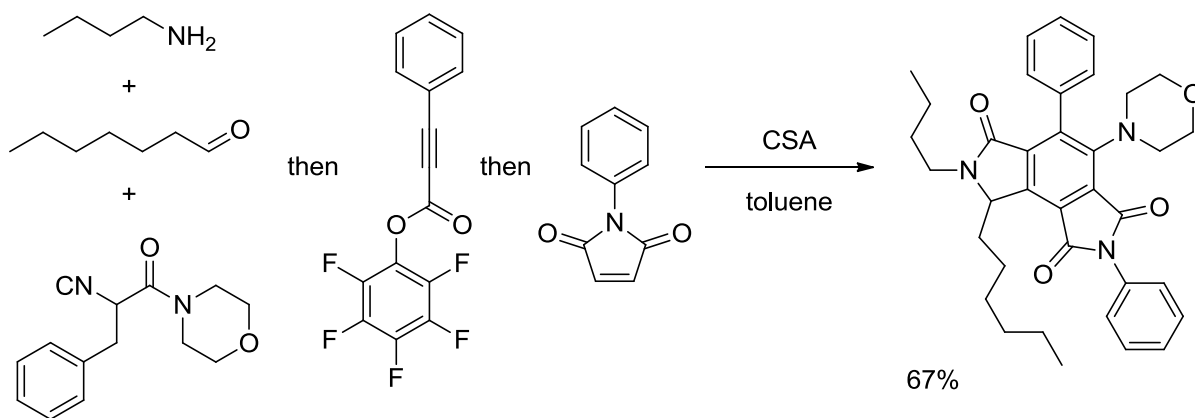
**Exercise 1:** Hinman, M. M.; Heathcock, C. H. *J. Org. Chem.* **2001**, *66*, 7751–7756



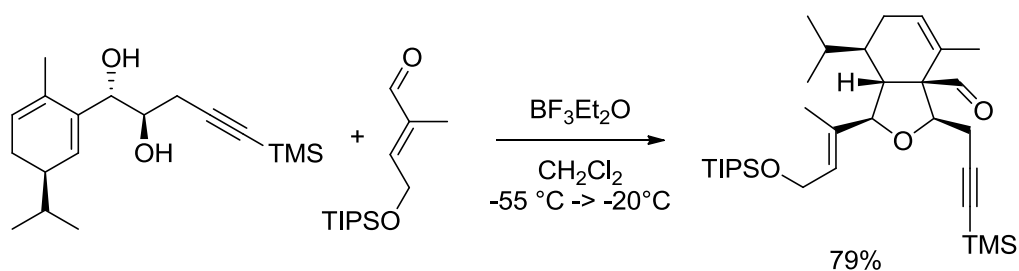
**Exercise 2:** Golden, J. E.; Aubé, J. *Angew. Chem. Int. Ed.* **2002**, *41*, 4316–4318



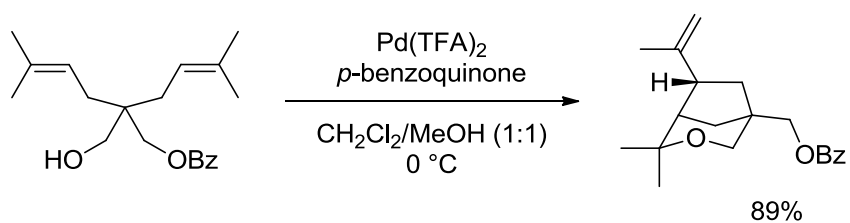
**Exercise 3:** Janvier, P.; Bienaymé, H.; Zhu, J. *Angew. Chem. Int. Ed.* **2002**, *41*, 4291–4294



**Exercise 4:** MacMillan, D. W. C.; Overman, L. E. *J. Am. Chem. Soc.* **1995**, *117*, 10391–10392



**Exercise 5:** Arai, M. A.; Kuraishi, M.; Arai, T.; Sasai, H. *J. Am. Chem. Soc.* **2001**, *123*, 2907–2908



**Exercise 6:** Brummond, K. M.; Hong, S. *J. Org. Chem.* **2005**, *70*, 907–916

