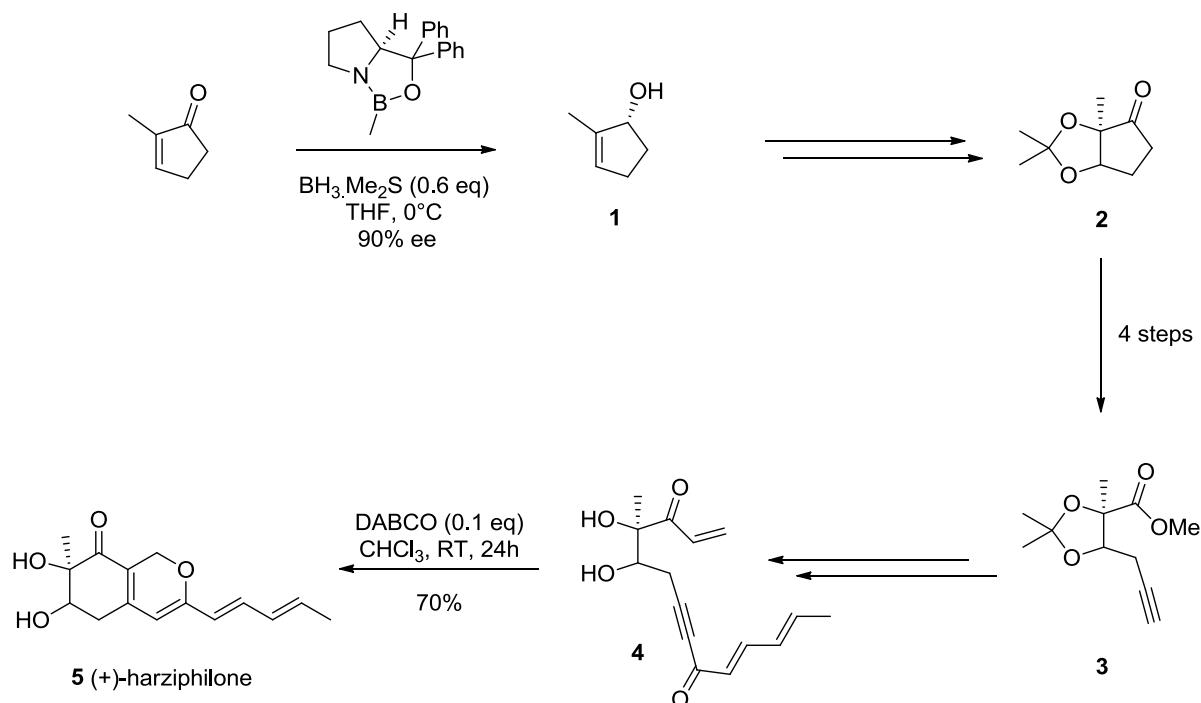


Concise synthesis of (+)-harziphilone by Sorensen et al.



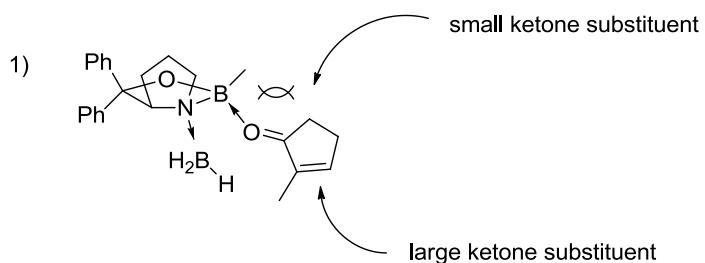
1) Propose an intermediate explaining the selectivity of the CBS reduction forming **1**.

2) Propose conditions to synthesize **3** from **2**

2) Detail the mechanism of the transformation affording **5** from **4**. The deprotected diol favors the first step of the sequence. How ?

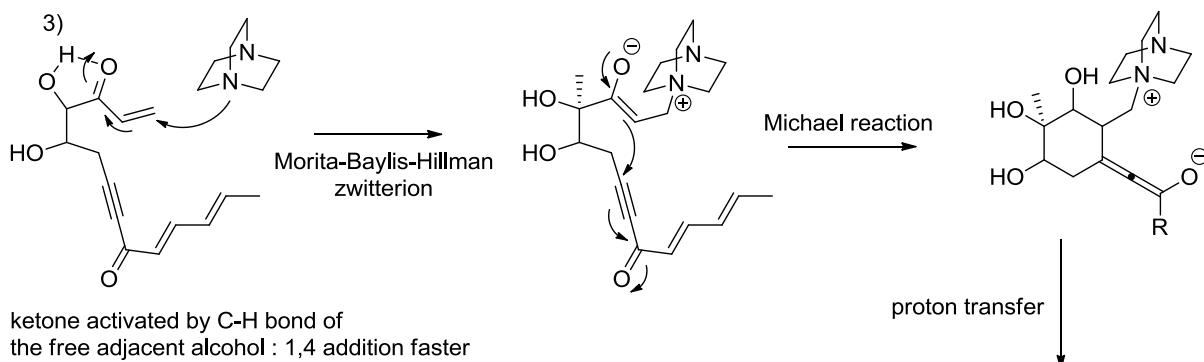
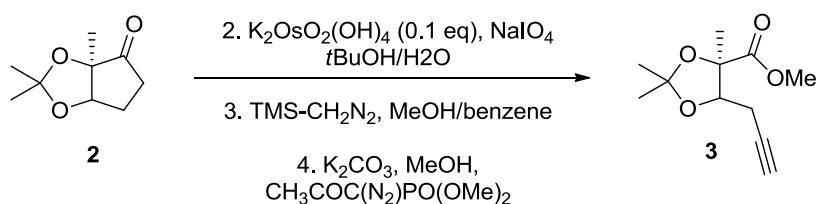
Starck, L.M.; Pekari, K.; Sorensen, E.J. *Proc. Natl. Acad. Sci. USA* **2004**, *101*, 12064-12066.

Solution :



2)

1. Ac₂O, pyridine, DMAP, 80°C



Keywords :
Morita Baylis Hillman
Cascade reaction

