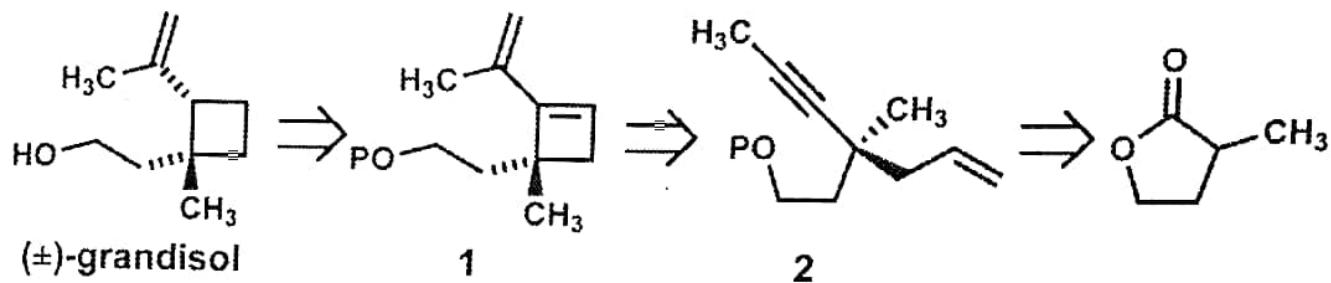
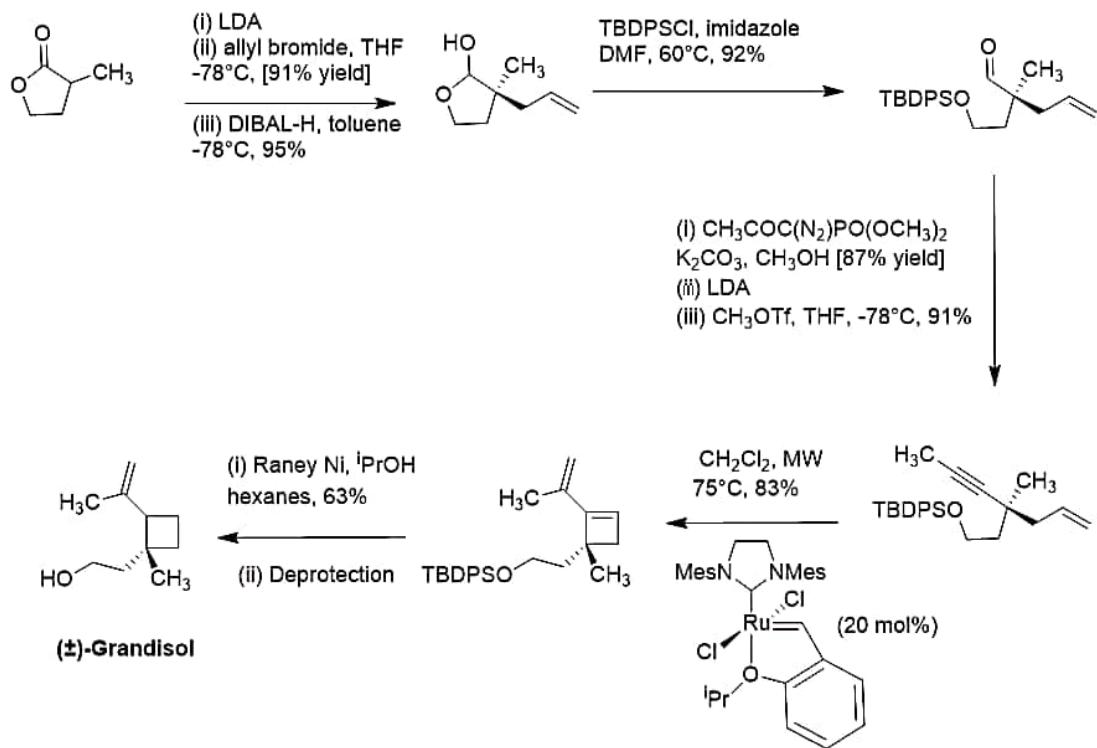


SCHEME 1. Retrosynthesis of (\pm)-Grandisol

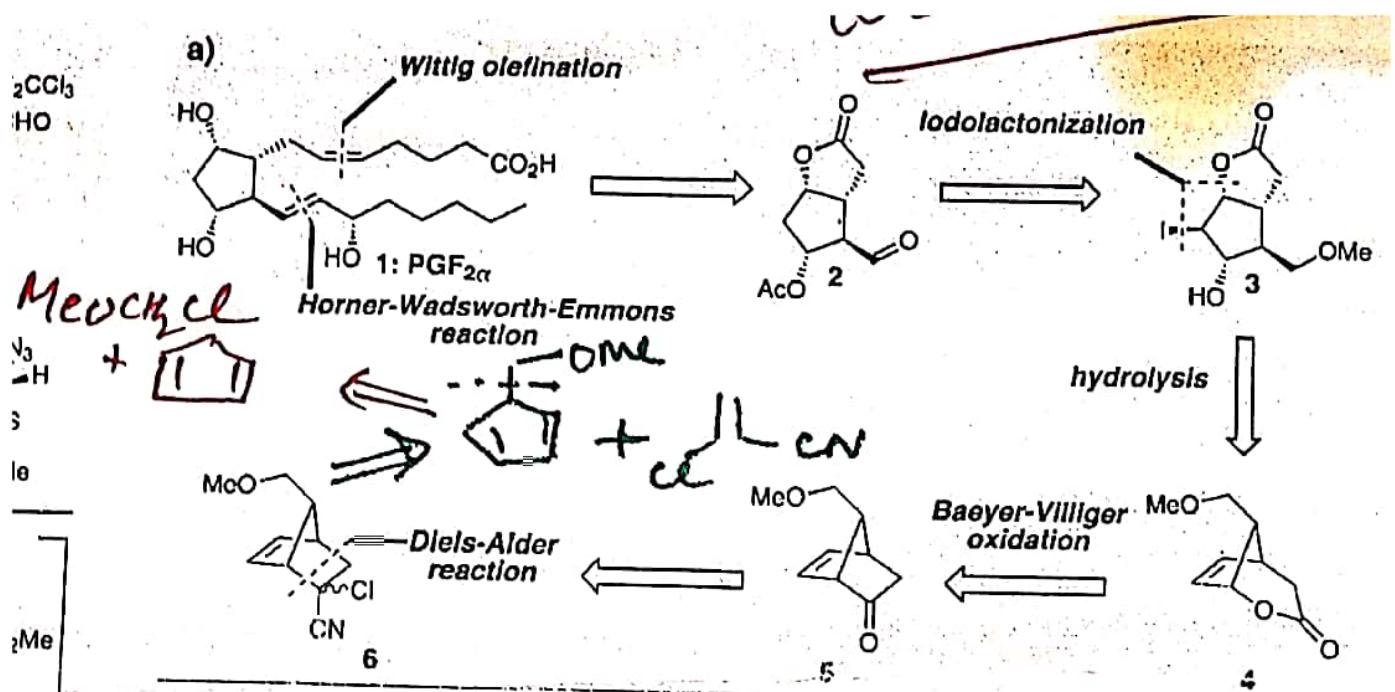


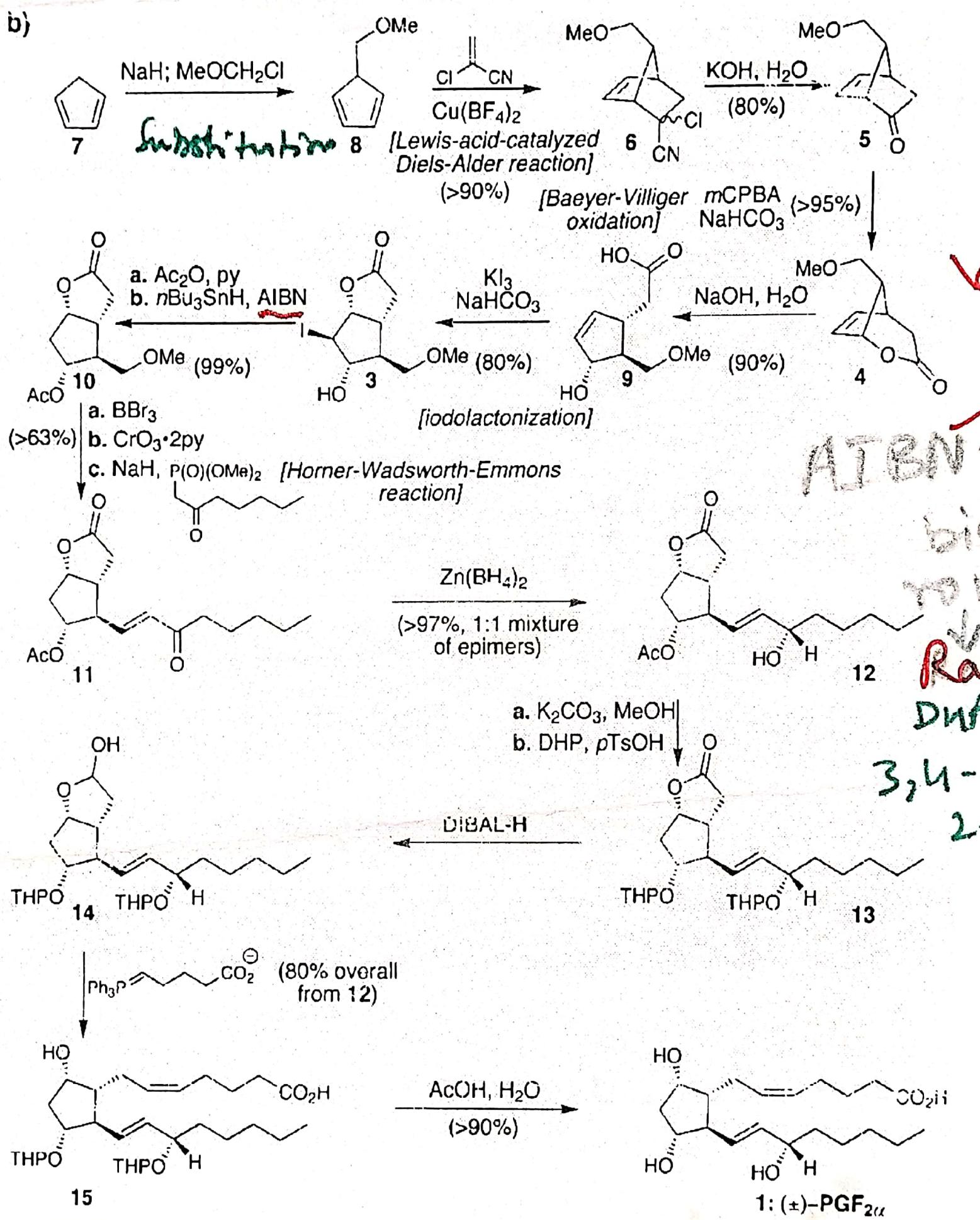
For details refer to:
J. Org. Chem. 2010, 75, 226-228

Synthesis of (\pm)-Grandisol



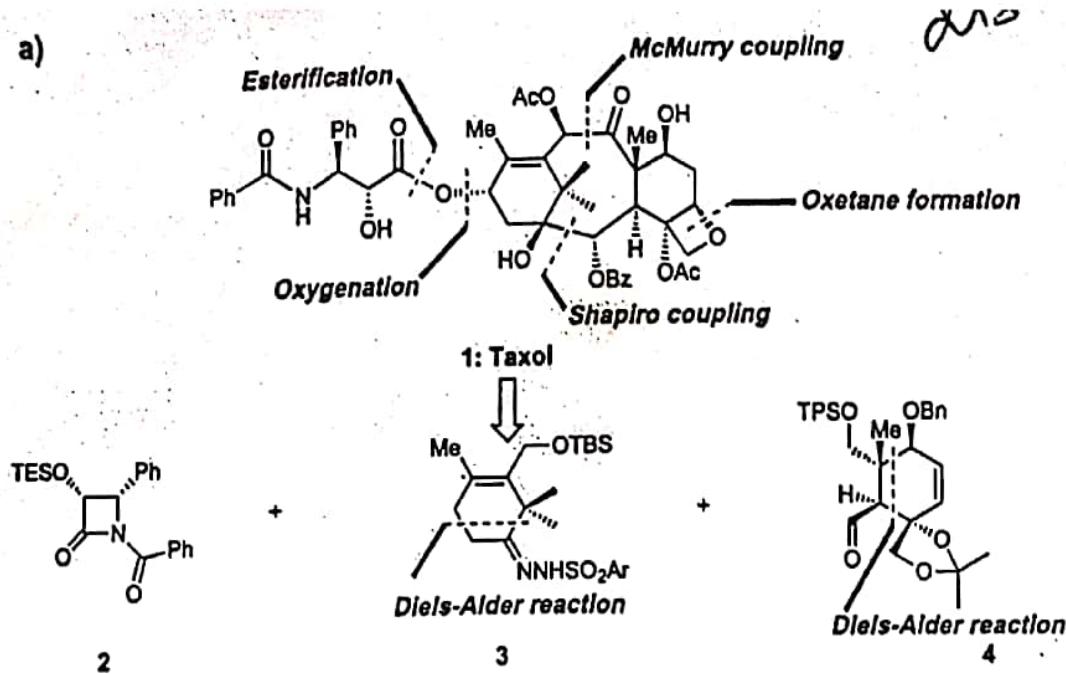
Retrosynthesis of PGF_{2α}

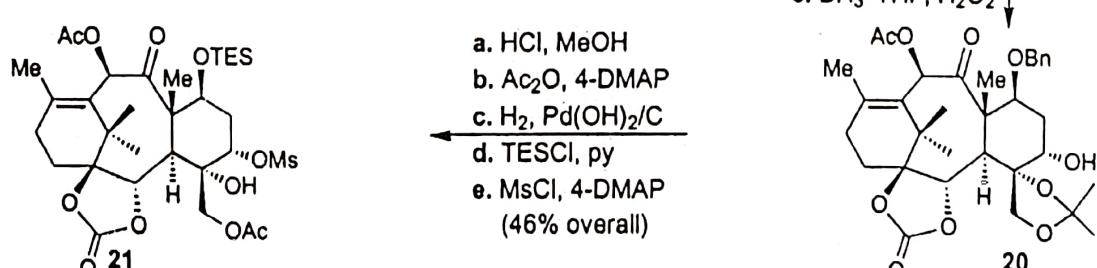
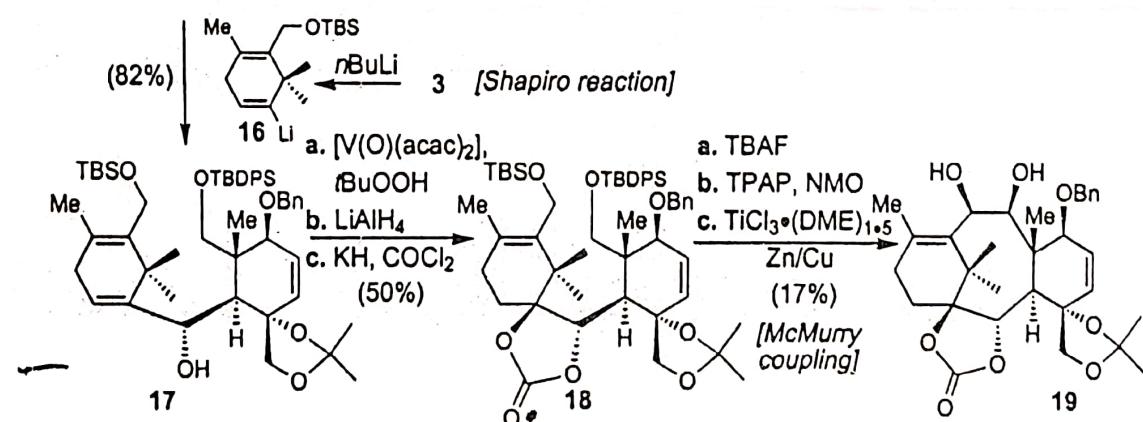
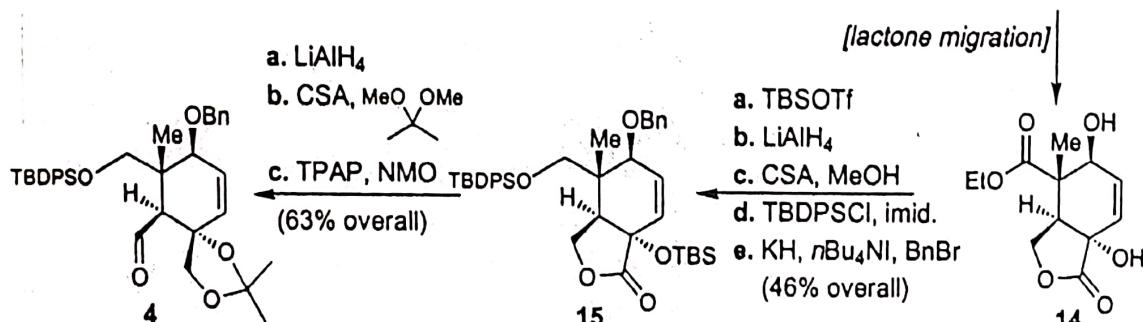
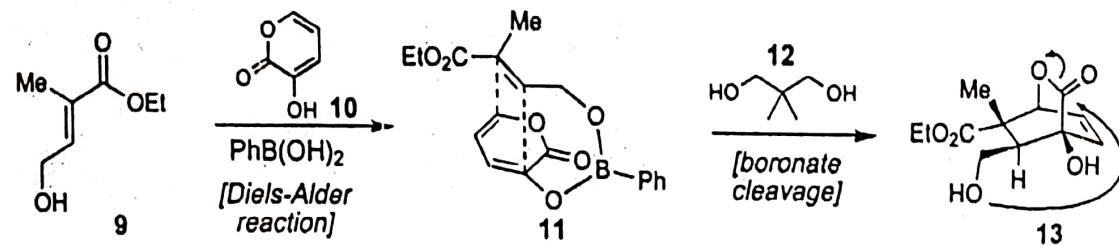
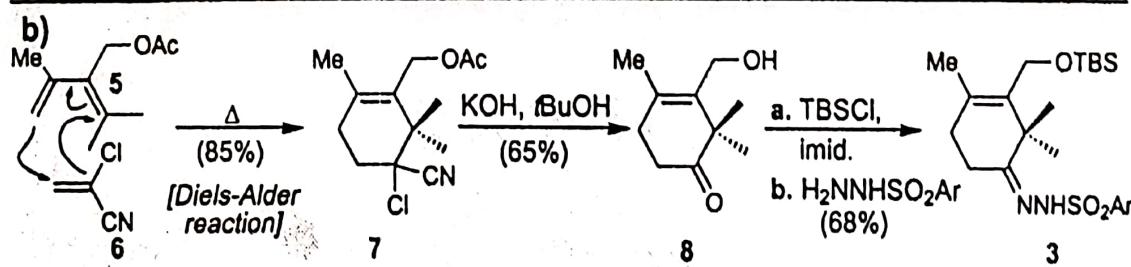




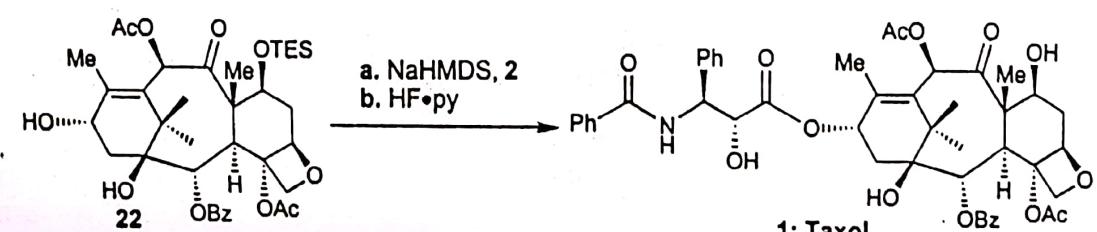
Scheme 11. a) Strategic bond disconnections and retrosynthetic analysis of (\pm)-PGF_{2 α} and b) the total synthesis (Corey et al., 1969).^[80]

Retrosynthesis of Taxol





a. K₂CO₃, MeOH | d. PhLi [selective carbonate opening]
 b. nBu₄NOAc | e. PCC [allylic oxidation] (34% overall)
 c. Ac₂O, 4-DMAP | f. NaBH₄



Scheme 29. a) Strategic bond disconnections and retrosynthetic analysis of taxol and b) total synthesis (Nicolaou et al., 1994).^[154]