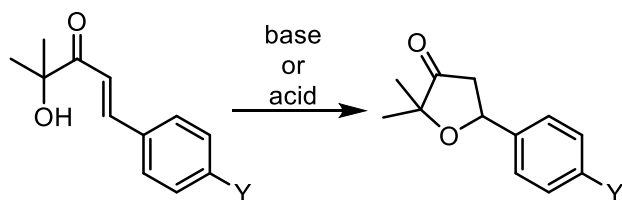




1. Same procedure as every week. Analyse Zhu's synthesis of the putative lipiarmycin aglycon (*Angew. Chem. Int. Ed.* **2015**, 54, 1929).

2. The following cyclisation is not observed under basic conditions, but takes place readily under acidic conditions. Explain. What kind of Hammett correlation would you expect (positive or negative  $\rho$ ) for the reactions, if you changed the substituent Y (different  $\sigma$  values)?



3. What are the kinetic products of the following two cyclisations?

