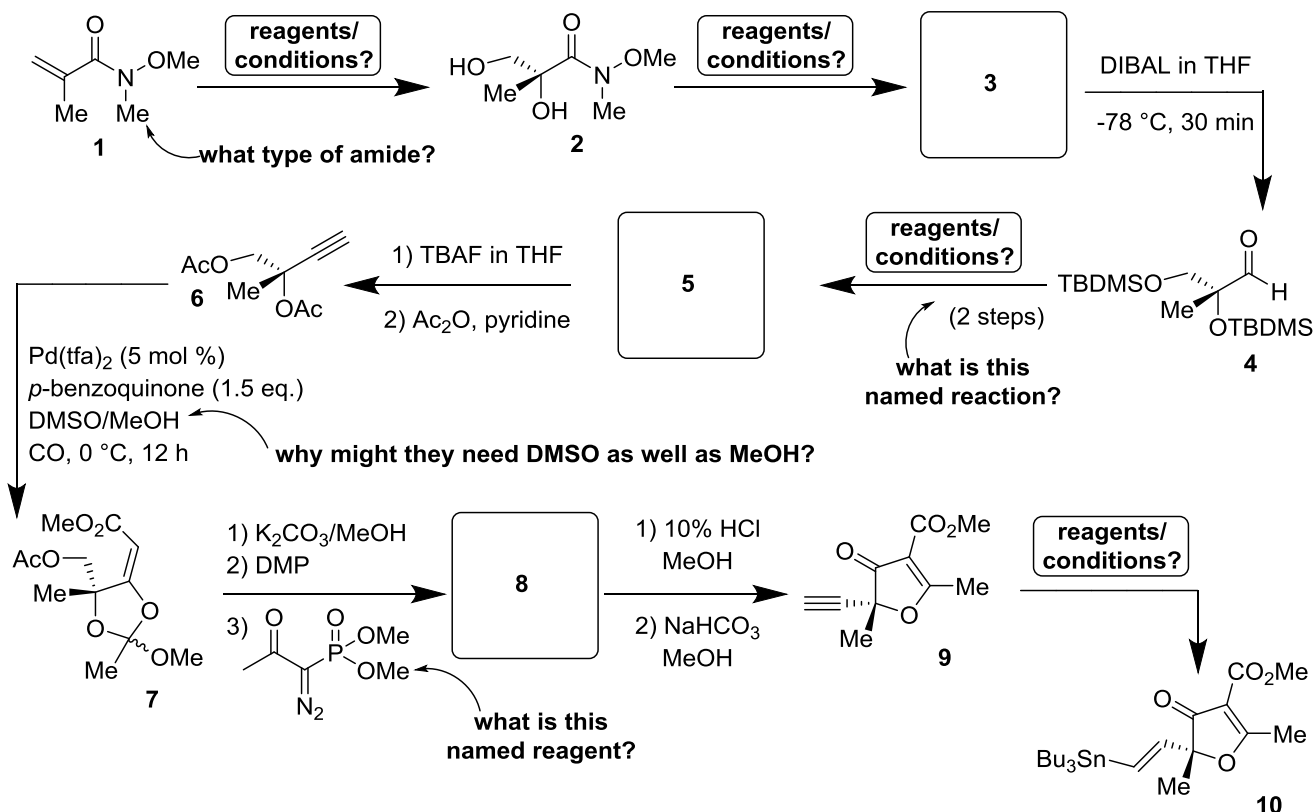


Spivey Group Problem Session – Total Synthesis of (+)-Gregatin B and E

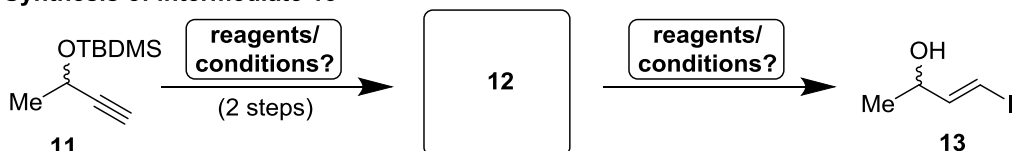
Lucy Smith - October 2013

Gregatins are natural products, possessing 4-oxo-3-furancarboxylate skeletons, which are isolated from *Cephalosporium gregatum*. Below is a total synthesis of (+)-gregatin B and E, please provide reagents/conditions and intermediates where indicated as well as mechanisms for all steps. Thank you!

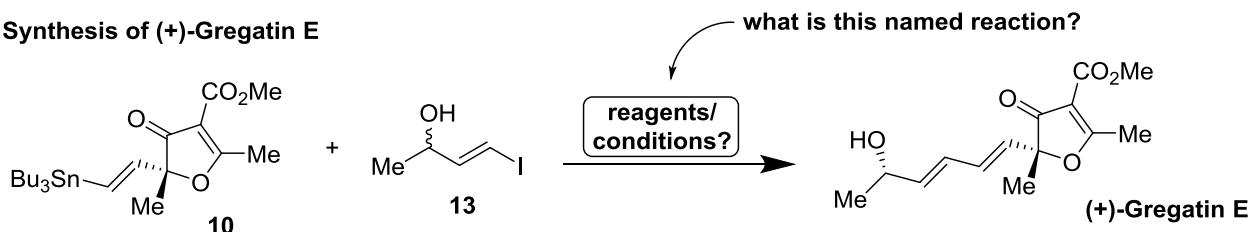
Synthesis of intermediate 10



Synthesis of intermediate 13



Synthesis of (+)-Gregatin E



Synthesis of (+)-Gregatin B

