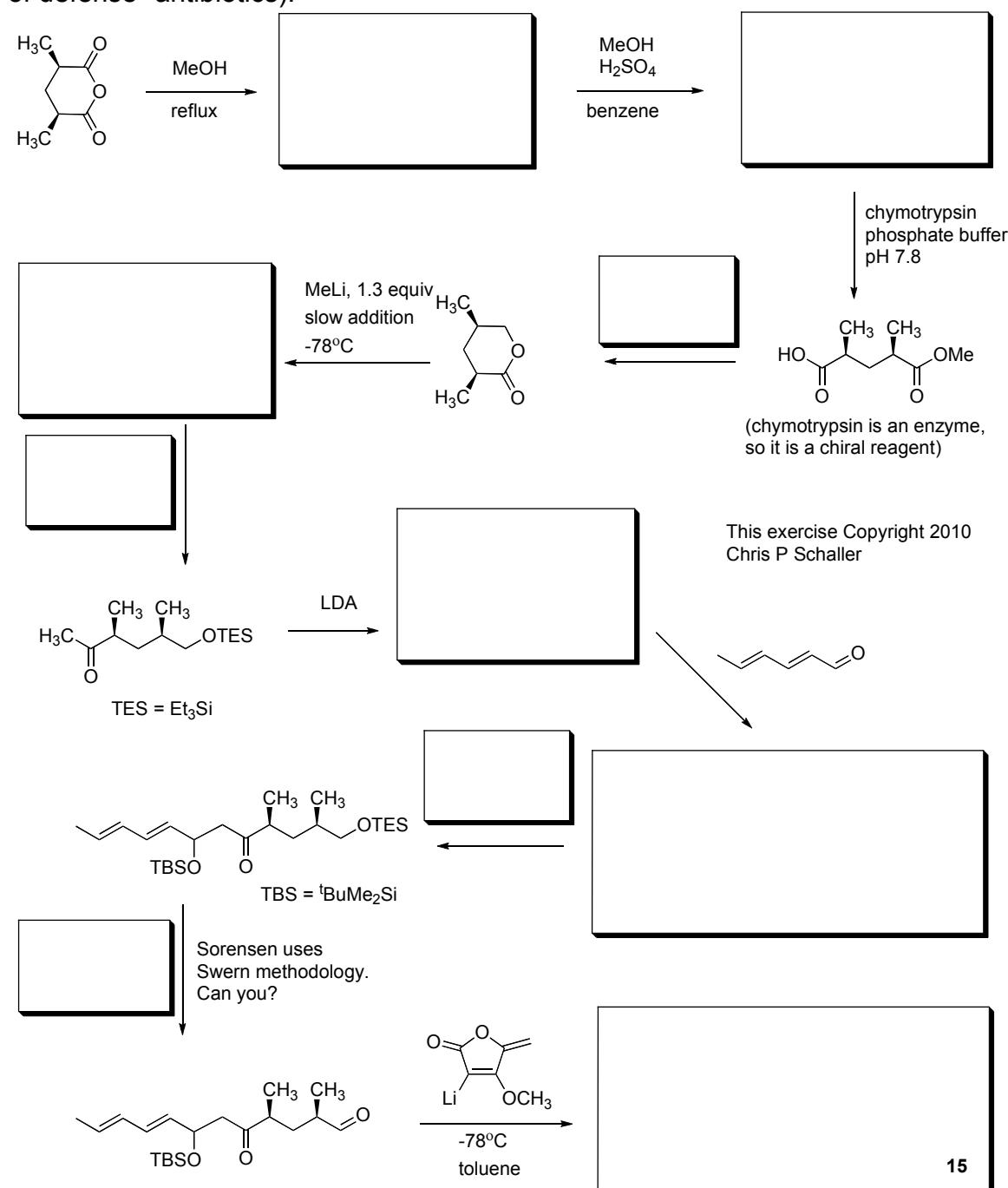
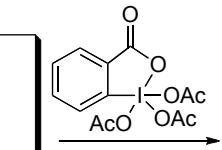
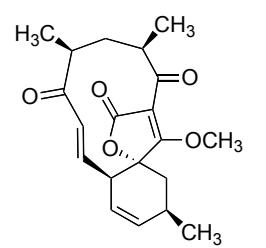
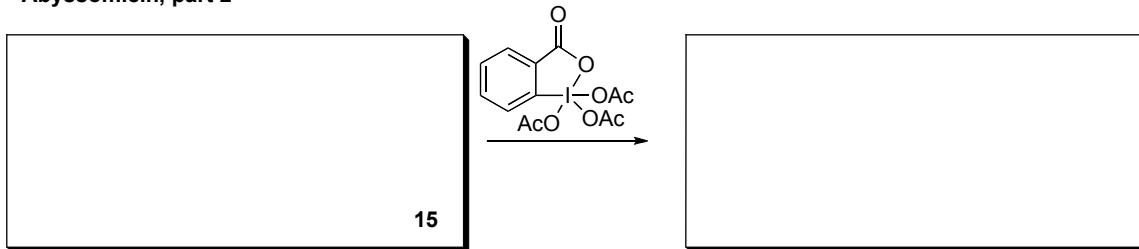


Synthesis of Abyssomicin C, Sorensen, Princeton, 2005

Abyssomicin is a natural product produced by an actinomycete found at depths of 300 m beneath the Sea of Japan. It inhibits methicillin-resistant and vancomycin-resistant bacteria (i.e. kills bacteria that can survive current "last-line of defense" antibiotics).



Abyssomicin, part 2



15

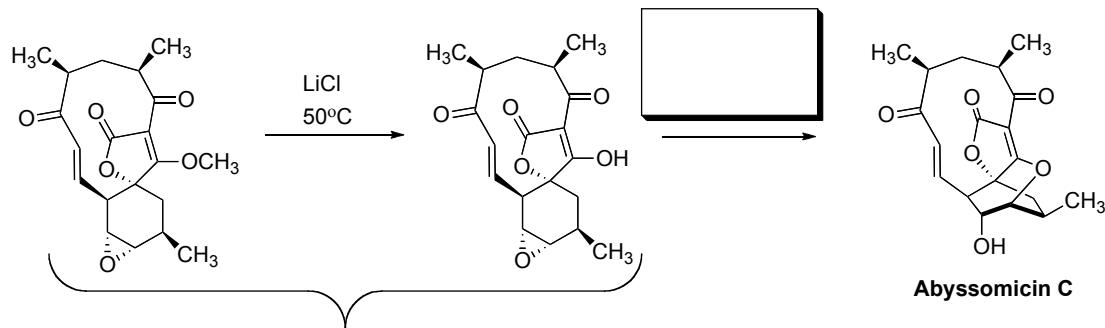


100°C
toluene

Circle and label the **diene** and the **dienophile**.



This exercise Copyright 2010 Chris P Schaller



Show a mechanism for this step, and explain the leaving group stability.