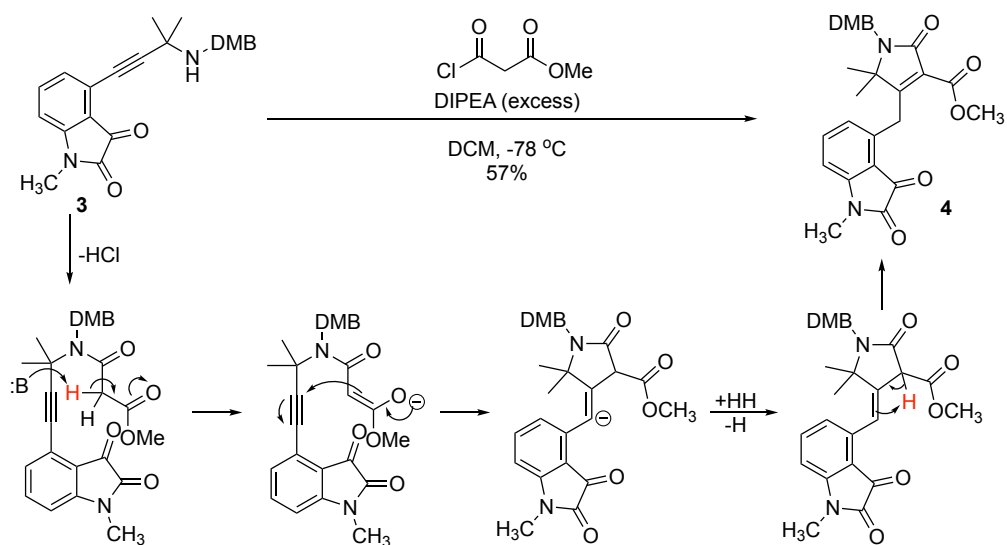


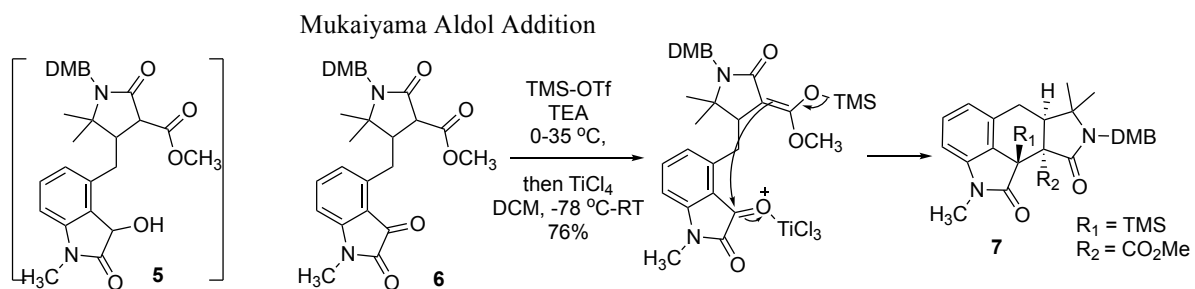
1. What is DMB? Explain the transformation of compound 3 to 4.
2. Give the structure of the intermediate 5 and account for the formation of 7 from 6.
3. Explain the conversion of 9 to 10.
4. Account for the formation of 12.
5. Propose a stepwise formation of the intermediate 13.

Q1. What is DMB? Explain the transformation of compound **3** to **4**.

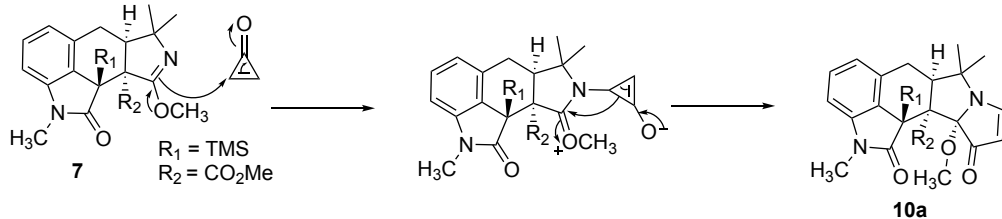
DMB = dimethoxybenzyl



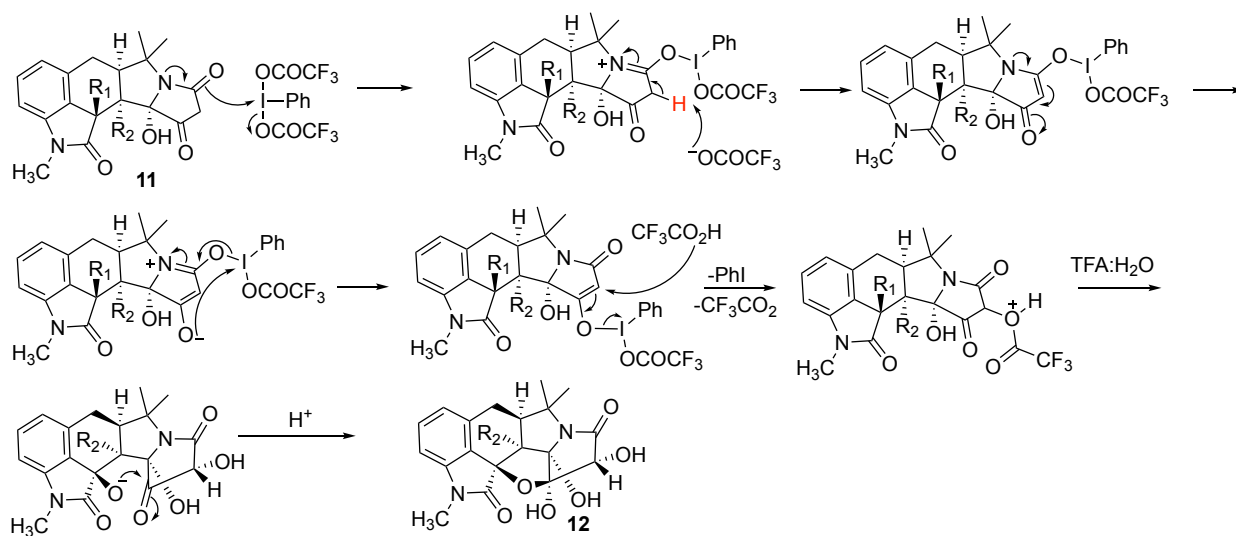
Q2. Give the structure of the intermediate **5** and account for the formation of **7** from **6**.



Q3. Explain the conversion of **9** to **10**.



Q4. Account for the formation of **12**.



Q5. Propose a stepwise formation of the intermediate **13**.

- Step 1: Ester hydrolysis to carboxylic acid
- Step 2: Peracetylation
- Step 3: Hundsdiecker iodinative decarboxylation

