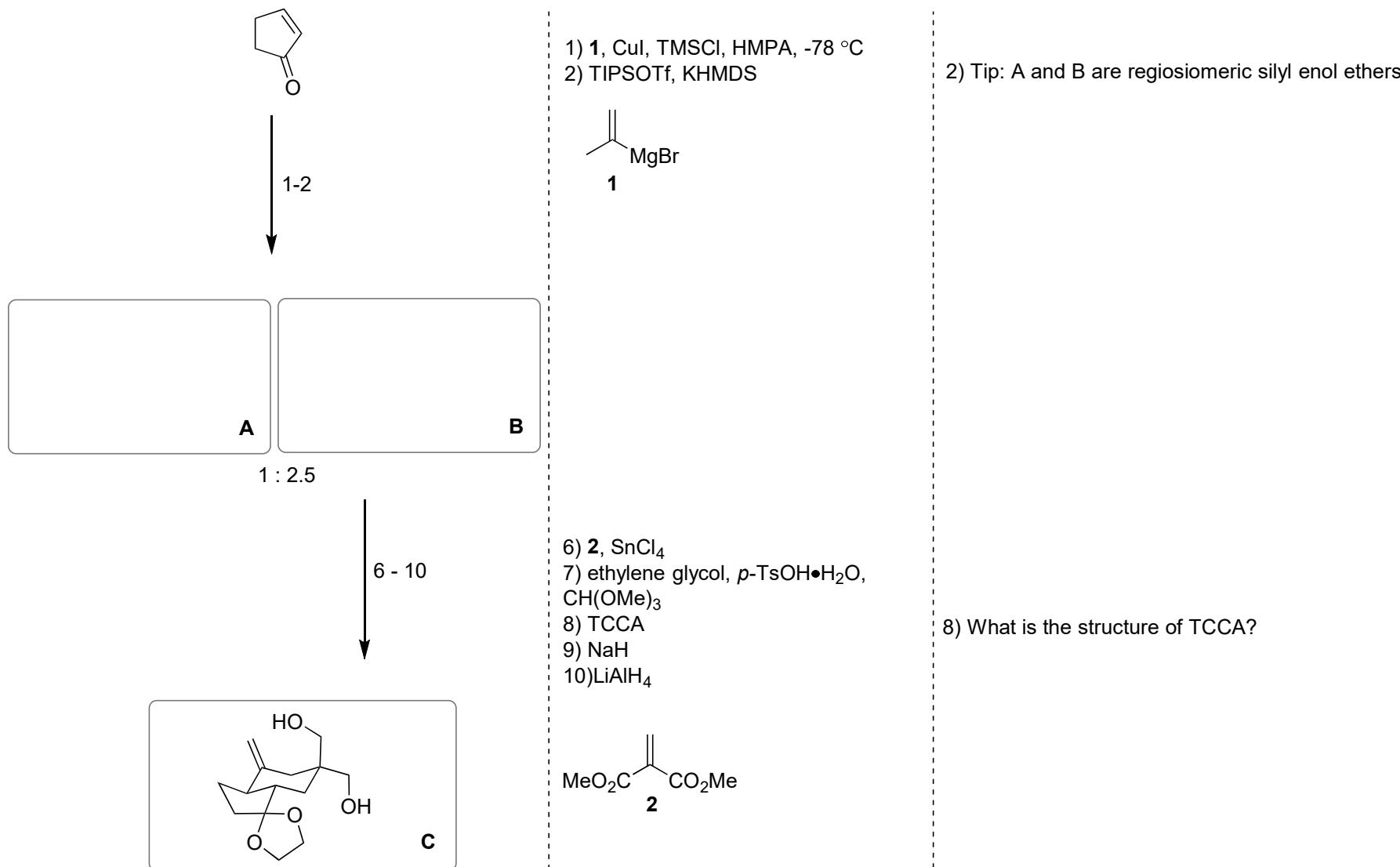


Total Synthesis of the Meroterpenoid Manginoid A as Fueled by a Challenging Pinacol Coupling and Bicycle-forming Etherification

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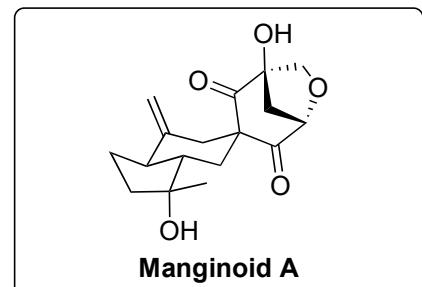
Angew. Chem. In. Ed 2021, 60, 11127-11132



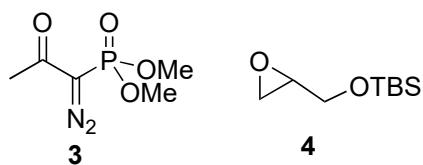
↓
10 - 15



↓
16-22



- 10) NIS; DMP
- 11) **3**, K₂CO₃, MeOH
- 12) LiHMDS, BF₃• OEt₂, **4**
- 13) Zn, AcOH
- 14) Pd/C, H₂, quinoline
- 15) DMP



11) Named reaction?

- 16) SmI₂, -78 °C
- 17) NBS *then* H₂O *then* K₂CO₃, MeOH
- 18) n-BuLi, -78 °C *then* TBAF
- 19) K₂CO₃, MeOH
- 20) Swern
- 21) FeCl₃ in acetone
- 22) MeMgBr, LaCl₃•2LiCl, -78 °C

16) Named reaction? Provide a rational on why a single diastereomer was produced.

17) Justify selectivity.

20) Tip: Double Swern.