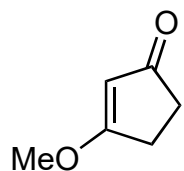


A Concise Total Synthesis of (+)-Waihoensene Guided by Quaternary Center Analysis

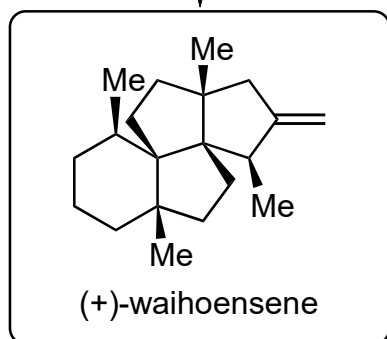
Cheng Peng, Piyush Arya, Zhiyao Zhou, and Scott P. Snyder*.
 Angew. Chem. Int. Ed. 2020, 59, 13521–13525



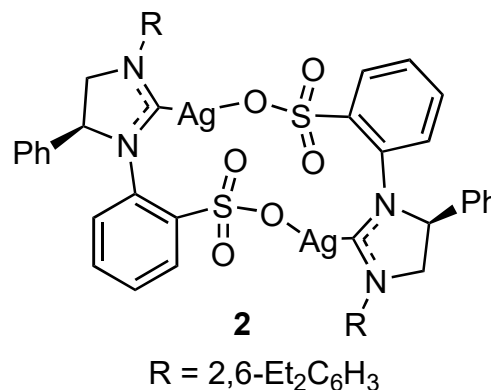
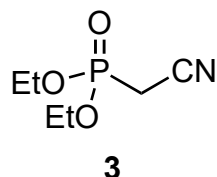
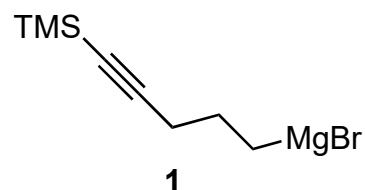
1-9



10-17



- 1) **1**
- 2) $\text{Cu}(\text{OTf})_2$, AlMe_3 , **2**
- 3) NaHMDS , Mander's reagent
- 4) TBAF
- 5) Ph_3PAuCl , AgOTf
- 6) H_2 , PtO_2
- 7) $\text{Ph}_3\text{P}=\text{CH}_2$
- 8) DIBAL-H
- 9) DMP



- 2) Who developed this chemistry
- 3) Structure of Mander's reagent;
Hint: two regioisomers were obtained

- 5) Name of the reaction
- 13) Structure of Ohira-Bestmann reagent
- 14) Name of the reaction; draw the catalytic cycle

- 10) **3**, $t\text{-BuOK}$
- 11) Mg , MeOH
- 12) DIBAL-H
- 13) Ohira-Bestmann reagent, K_2CO_3 , MeOH
- 14) $\text{Co}_2(\text{CO})_8$, CO
- 15) MeLi , CuCN , $\text{BF}_3 \cdot \text{Et}_2\text{O}$
- 16) LiHMDS , MeI
- 17) $\text{Ph}_3\text{P}=\text{CH}_2$

