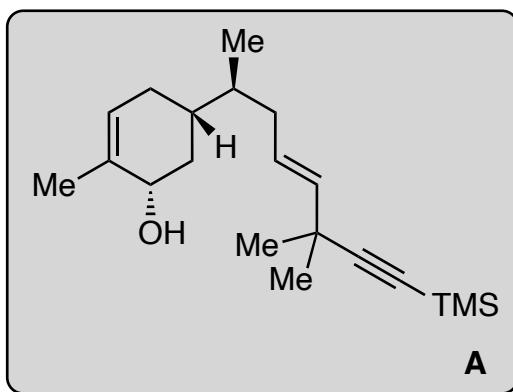
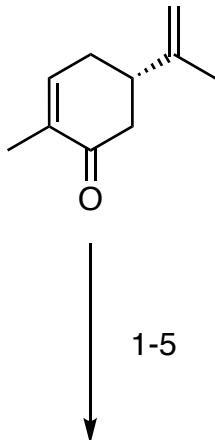


Total Synthesis of (+)-Aberrarone

Wang, Y.; Su, Y.; Jia, Y.*

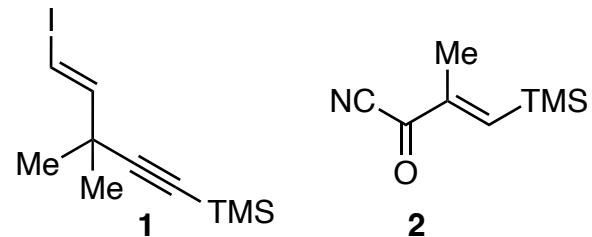
J. Am. Chem. Soc. 2023, 145, 9459–9463



6-13

(+)-Aberrarone

- 1) $\text{NaBH}_4, \text{CeCl}_3$
- 2) $\text{CuCl}(\text{S})\text{-DTBM-SegPhos}, \text{KO}t\text{-Bu}, \text{HBPin}$
- 3) $\text{NaBO}_3 \cdot 4\text{H}_2\text{O}$
- 4) $\text{PPh}_3, \text{I}_2, \text{imidazole}$
- 5) **1**, $\text{NiI}_2, \text{Mn, terpyridine}$

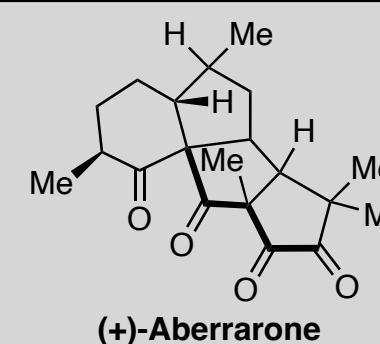
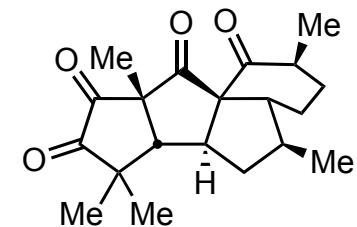


- 6) IBX
- 7) LiHMDS, **2**
- 8) $\text{Mn}(\text{OAc})_3 \cdot 2\text{H}_2\text{O}, \text{EtOH}$
- 9) TBAF, AcOH
- 10) TFA
- 11) *m*-CPBA, then H_5IO_6
- 12) Ra Ni, H_2
- 13) $\text{SeO}_2, 100^\circ\text{C}$

8) Hint: Most acidic proton is also most homolytic

9-10) Hint: β -Si effect

For reference: Carreira group's drawing of (+)-Aberrarone



(+)-Aberrarone

