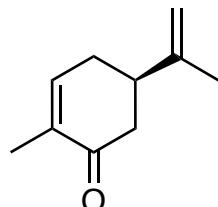


## Total Synthesis of (+)-Aberrarone

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

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

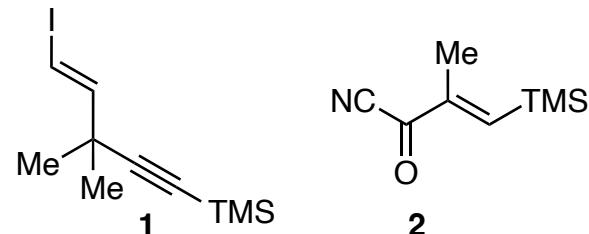


1-5

↓  
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)  $\text{PPh}_3, \text{I}_2$ , imidazole
- 5) **1**,  $\text{NiI}_2$ , Mn, terpyridine



- 6) IBX
- 7) LiHMDS, **2**
- 8)  $\text{Mn}(\text{OAc})_3 \cdot 2\text{H}_2\text{O}$  EtOH
- 9) TBAF, AcOH
- 10) TFA
- 11) *m*-CPBA, then  $\text{H}_5\text{IO}_6$
- 12) Ra Ni,  $\text{H}_2$
- 13)  $\text{SeO}_2$  100°C

8) Hint: Most acidic proton is also most homolytic

9-10) Hint:  $\beta$ -Si effect

10) Name of reaction?

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

