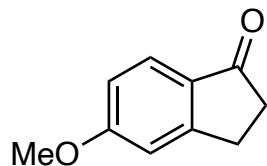


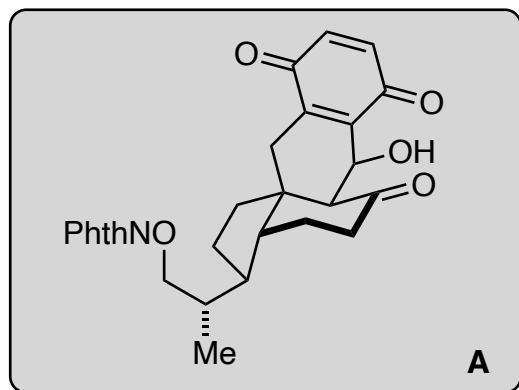
A Concise Synthesis of Pleurotin Enabled by a Nontraditional C-H Epimerization

Hoskin, J. F.; Sorensen E. J

J. Am. Chem. Soc. **2022**, *144*, 14042-14046

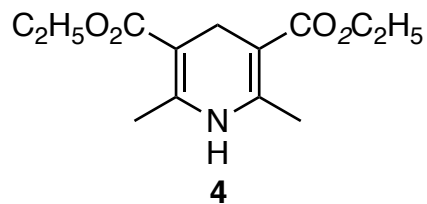
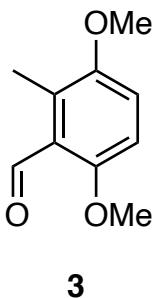
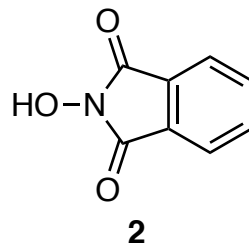
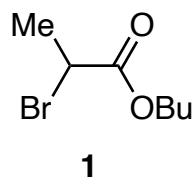


1-5



6-8

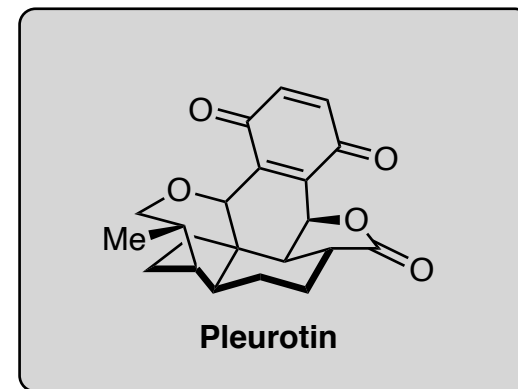
- 1) Zn^0 , **1**
- 2) $HCOONH_4$, $Pd(OH)_2$
- 3) $LiAlH_4$, then Li, $HOtBu$, ethylene diamine then HCl
- 4) DEAD, **2**, PPh_3
- 5) **3**, $Ti(OiPr)_4$, 365hv

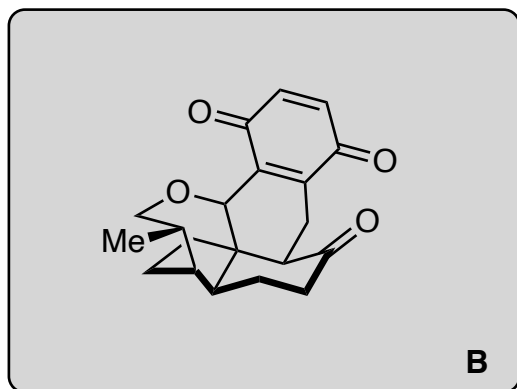


- 6) *fac*-Ir(*ppy*)₃ (1 mol%), **4**, TRIP thiol
- 7) $BF_3 \cdot OEt_2$, Et_3SiH
- 8) DDQ

- 1) Name of starting material?
hint Zn^0 is Activated Zinc
- 3) Name of reaction?
- 4) Structure of DEAD?

- 7) Mechanism of the reaction?





- 9) TosMIC, KO^tBu
- 10) DIBAL
- 11) Ag₂O, NaOH
- 12) CAN
- 13) MnO₂

