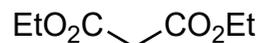


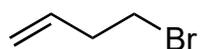
Total Synthesis of (+)-Melonine and (+)-N4-Oxy Melonine Enabled by an Intramolecular Alkene Diamination Reaction

Vincent Goëlo, Qian Wang, and Jieping Zhu*

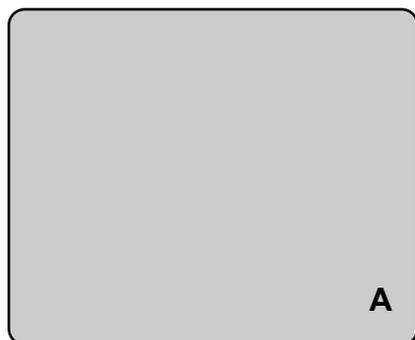
Angew. Chem. Int. Ed. **2026**, e8101956



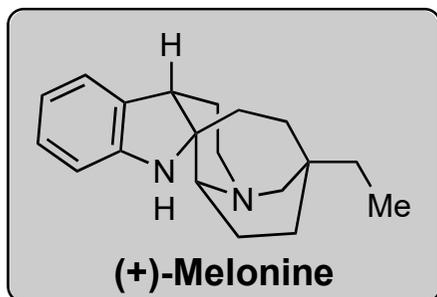
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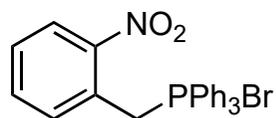
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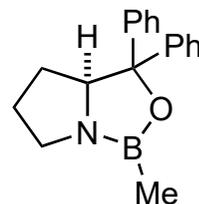
9-15



- 1) NaH
- 2) Grubbs II, *then* Oxone, NaHCO₃, 0 °C
- 3) DMP
- 4) **1**, NEt₃
- 5) **(S)-2**, BH₃·THF, -20 °C
- 6) PivOH, MeC(OMe)₃, 80 °C, *then* 120 °C
- 7) DIBAL-H (2 eq), *then* Zn, NH₄Cl
- 8) BocNHOTs, DIAD, PPh₃



1



(S)-2

- 9) MsCl, pyridine
- 10) TFA, 75 °C
- 11) AlMe₃, 40 °C
- 12) LiBH₄
- 13) TPAP, NMO, 4 Å MS
- 14) CH₂(ZnI)₂, *then* RhCl(PPh₃)₃, H₂
- 15) Red-Al, 95 °C

6) Name of the reaction?

10) hint: through an aziridinium intermediate