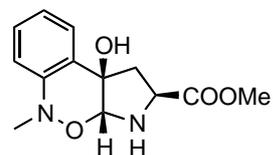


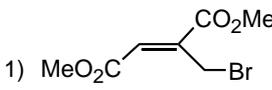
1. (a) AcCl, MeOH, reflux, 2 h, 99%
(b) TrCl, TEA, CH₂Cl₂, rt, 48 hr, 69%
2. (a)  acetone, -78 °C
(b) AcOH, MeOH, CH₂Cl₂, rt, 2 h, 40%
3. MCPBA, CH₂Cl₂, 0 °C, 2 hr, 49%

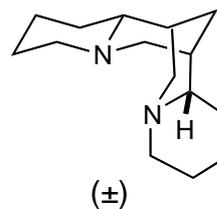
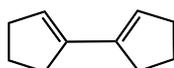


Schwaebisch, D.; Tchabanenko, K.; Adlington, R. M.; Cowley, A. M.; Baldwin, J. E.

Chem. Commun. **2004**, 2552.

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- 1)  Me₂AlCl, CH₂Cl₂
-78°C~ r.t. 12hr 95% (75: 25)
- 2) NaOMe, toluene, reflux, 12hr (75: 25) 90%
- 3) Li, NH₃ then MeOH
products 76 (68 %) : 24: 0
↓
next reaction
- 4) O₃, Me₂CO, -78°C~ r.t.
then CH₃CHO, then PPh₃, 12hr 98%
- 5) NH₂OH·HCl, Py, EtOH, 0°C, 2d 53%
- 6) i) MeSO₂Cl, NEt₃, CH₂Cl₂ -20°C 0.5hr
ii) THF, H₂O, 60 °C, 24hr 52%
- 7) LiAlH₄, THF, reflux, 12hr 90%
- 8) CCl₄, PPh₃, then
NEt₃, MeCN, r.t. 18hr 53%



T. Buttler and I. Fleming
Chem. Commun., **2004**, 2404.