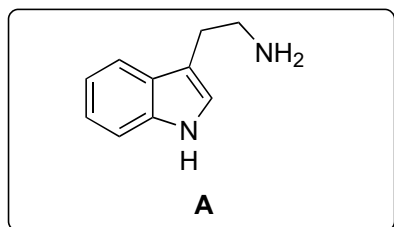


Total Synthesis of Pyrroloazocine Indole Alkaloid Grandilodine C

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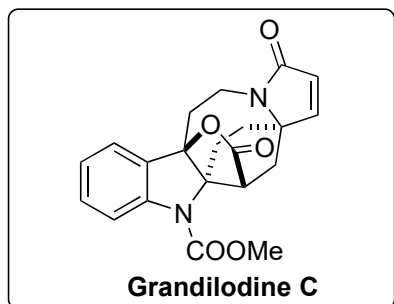
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1-8



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- 1) **B**, NEt₃, toluene, reflux, *then* HCl
- 2) Bestmann-Ohira-reagent, K₂CO₃, MeOH
- 3) AuCl, AcOH
- 4) NaHMDS, ClCO₂Me
- 5) OsO₄, NMO, *then* NaIO₄
- 6) H₂, Pd/C
- 7) SiCl₄, pyridine-*N*-oxide, *t*-BuNC, *then* MeOH
- 8) Ph₃PBr₂, NBu₄Br, imidazole

- 9) [(dppmAuCl)₂], Na₂CO₃, UV-LEDs (385 nm), MeCN
- 10) H₂SO₄ (aq), CH₂Cl₂
- 11) Lawesson's reagent
- 12) *p*-TolS(O)Cl, *i*-Pr₂NEt, *then* heat
- 13) *m*-CPBA

1) Name?

5) Name?

7) Name? Propose a mechanism!

9) Mechanism? dppm: Ph₂P-CH₂-PPh₂

10) mechanism?

11) Structure of Lawesson's reagent?

12) Mechanism?

