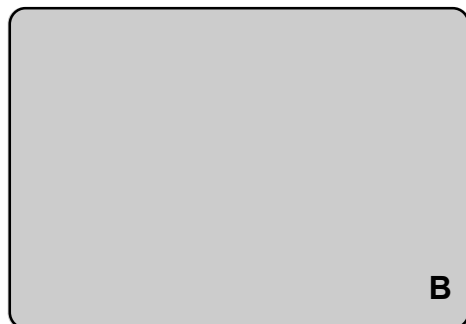
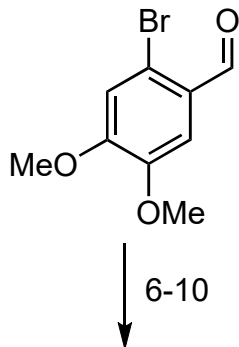
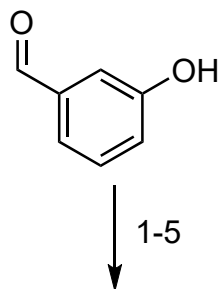
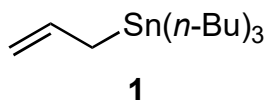


Enantioselective Total Synthesis of (+)-Stephadiamine through Bioinspired Aza-Benzilic Acid Type Rearrangement

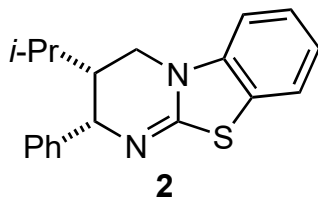
Odagi, M.; Matoba, T.; Hosoya, K.; Nagasawa, K. *J. Am. Soc.* **2021**, *143*, 2699–2704.



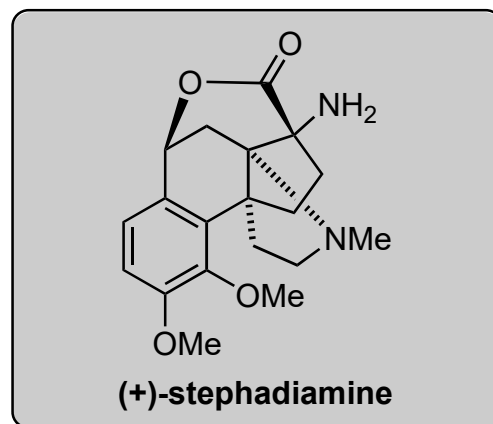
- 1) MOMCl, DIPEA
- 2) NaBH₄
- 3) NBS
- 4) **1**, Pd(PPh₃)₄
- 5) MsCl, NEt₃

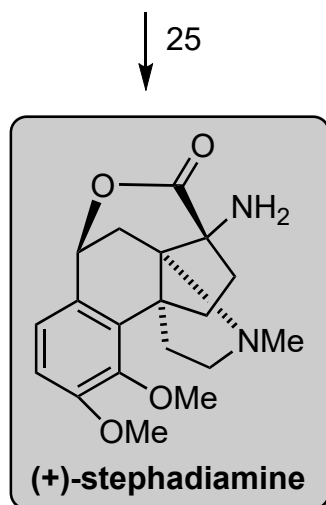
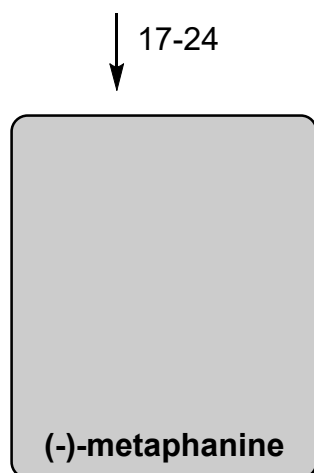
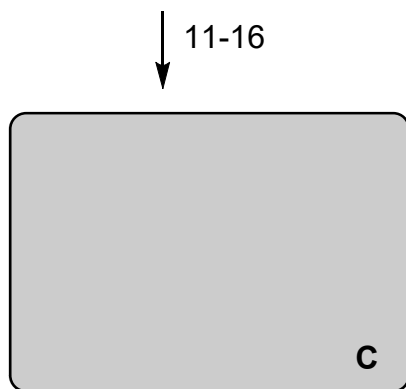


- 6) TMSCN, ZnI₂
- 7) **A**, LiHMDS
- 8) TBAF
- 9) NaBH₄
- 10) **2**, (CO*i*-Pr)₂O, DIPEA



- 4) Name of the reaction
- 10) *hint*: acylative kinetic resolution

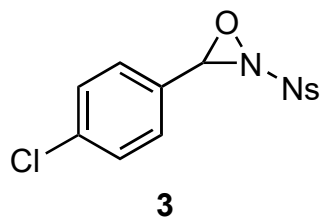




- 11) TIPSCl, imH
- 12) O₃ *then* NaBH₄
- 13) MsCl, NEt₃ *then* NaN₃
- 14) PPh₃, H₂O *then* Boc₂O
- 15) CBr₄
- 16) PIDA, MeOH

- 17) HCO₂Na, Pd(PPh₃)₄
- 18) KO^t-Bu
- 19) **3**, KHMDS
- 20) DMP, NaHCO₃
- 21) 3 HF·NEt₃
- 22) H₂, Pd/C
- 23) HCl
- 24) HCHO, NaBH₃CN

- 25) NH₃



- 14) Name of the reaction
- 19) Name of reagent **3**, Structure of
Ns
- 24) Name of the reaction