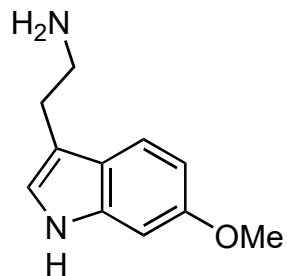
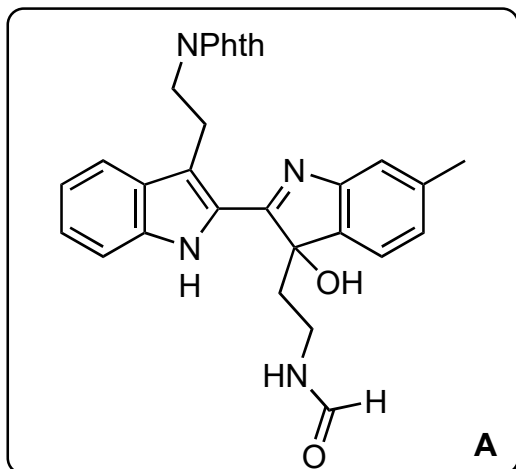


Total Synthesis of (\pm)-Trigonoliimine C via Oxidative Rearrangement of an Unsymmetrical Bis-Tryptamine

Qi, X.; Bao, H.; Tambar, U. K.*
J. Am. Chem. Soc. **2011**, *133*, 10050–10053.



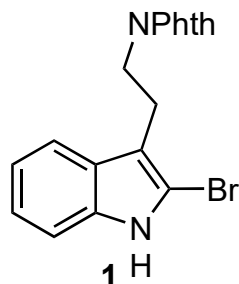
1-5



6-8

Trigonoliimine C

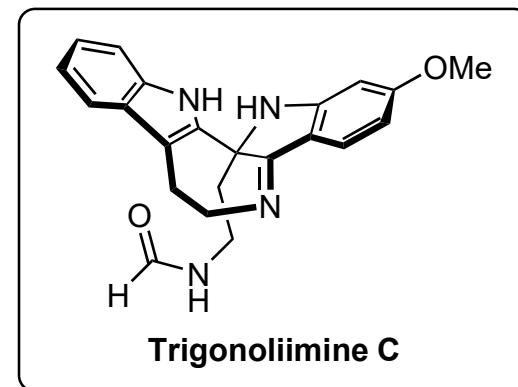
- 1) HCO_2Et
- 2) Boc_2O , DMAP, DMF
- 3) LiTMP then Bu_3SnCl
- 4) **1**, $\text{Pd}(\text{PPh}_3)_4$
- 5) $\text{PhI}(\text{TFA})_2$, MeCN, H_2O



- 6) HCl in dioxane, wet DMA, 150 °C
- 7) H_2NNH_2 , MeOH, DCM
- 8) $\text{Ti}(\text{O}i\text{-Pr})_4$, THF

Bonus step: what reaction will you expect if you treat intermediate A with $\text{Sc}(\text{OTf})_3$, DMF, 150 °C?

6) Please name the reaction
Wagner-Meerwein [1,2]-shift



solution to Bonus Step:

