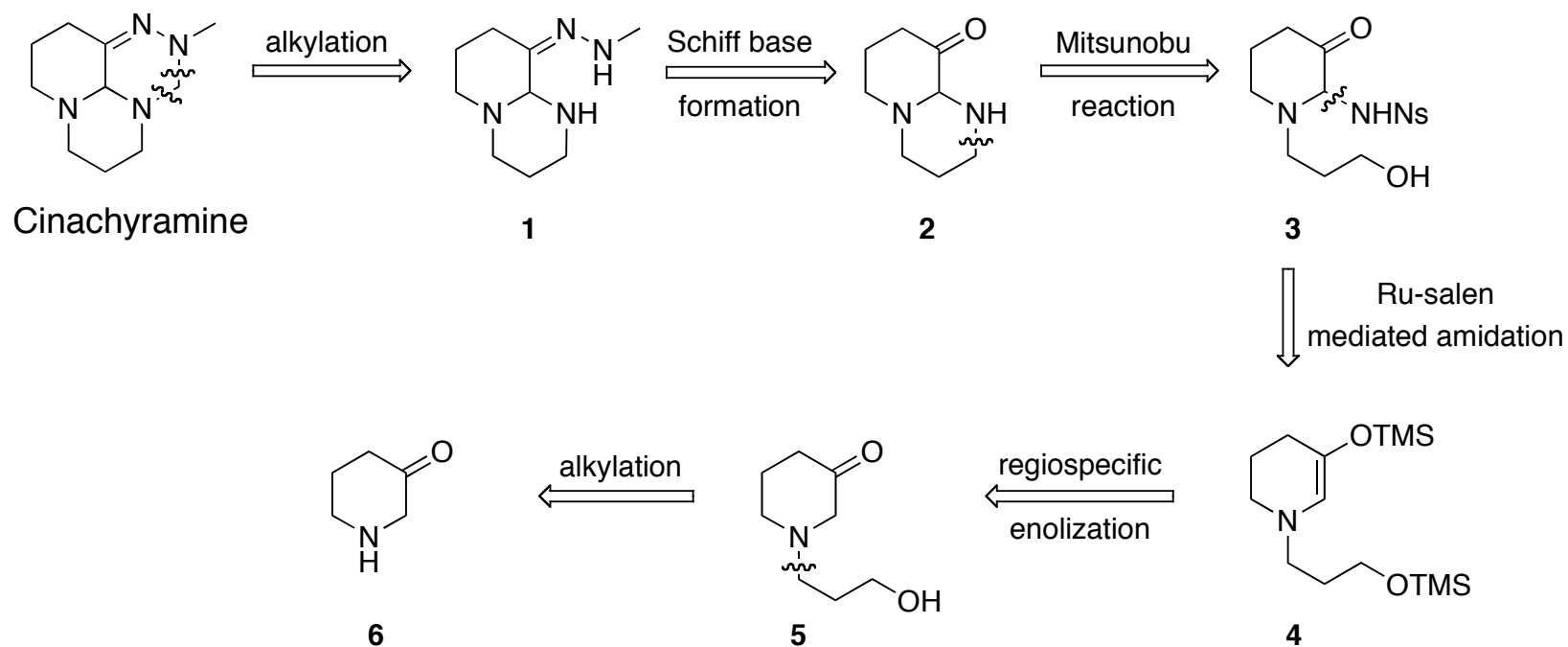
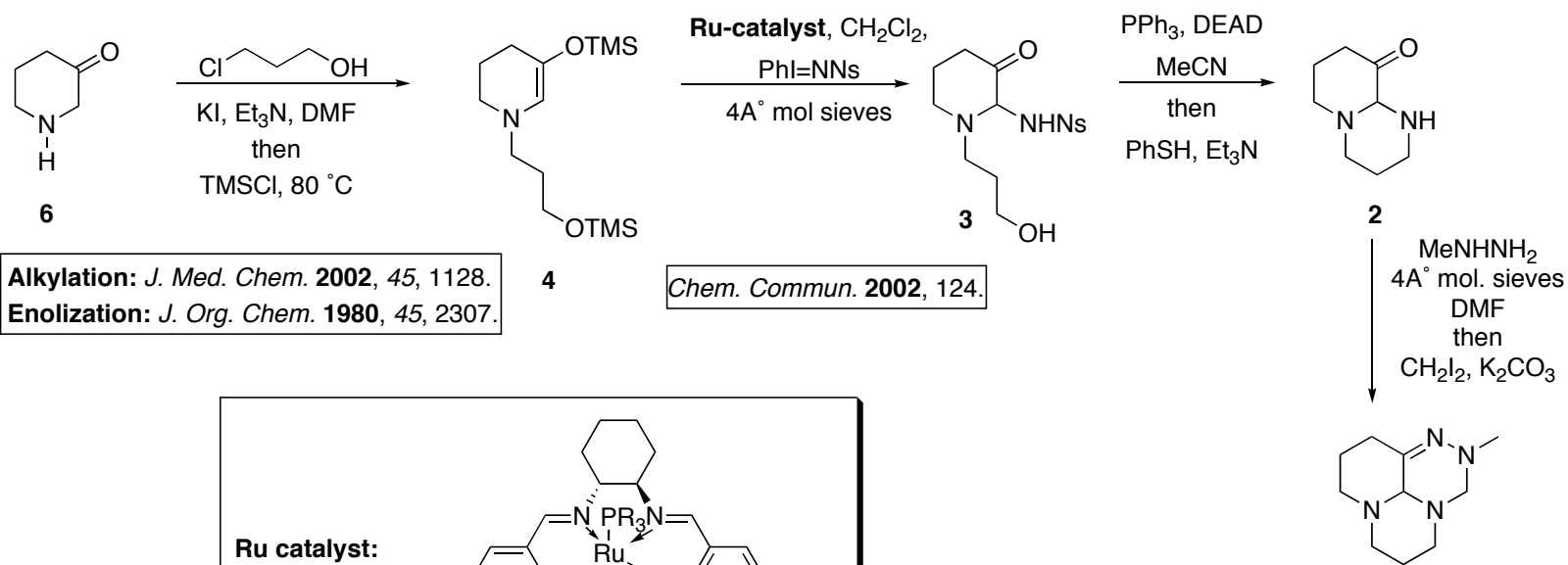


Cinachyramine: Retrosynthetic Analysis



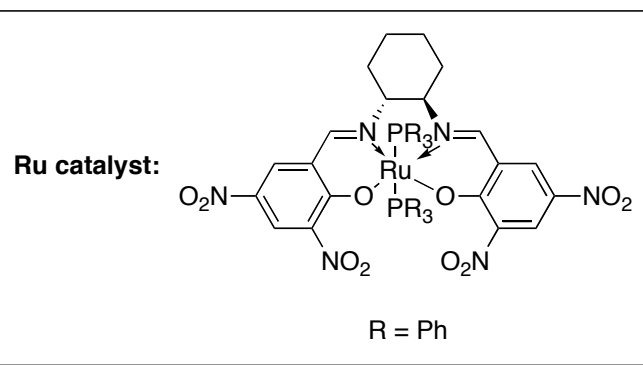
Total Synthesis of Cinachyramine

Jennifer, David and Amol.



Alkylation: *J. Med. Chem.* **2002**, *45*, 1128.
Enolization: *J. Org. Chem.* **1980**, *45*, 2307.

Chem. Commun. **2002**, 124.



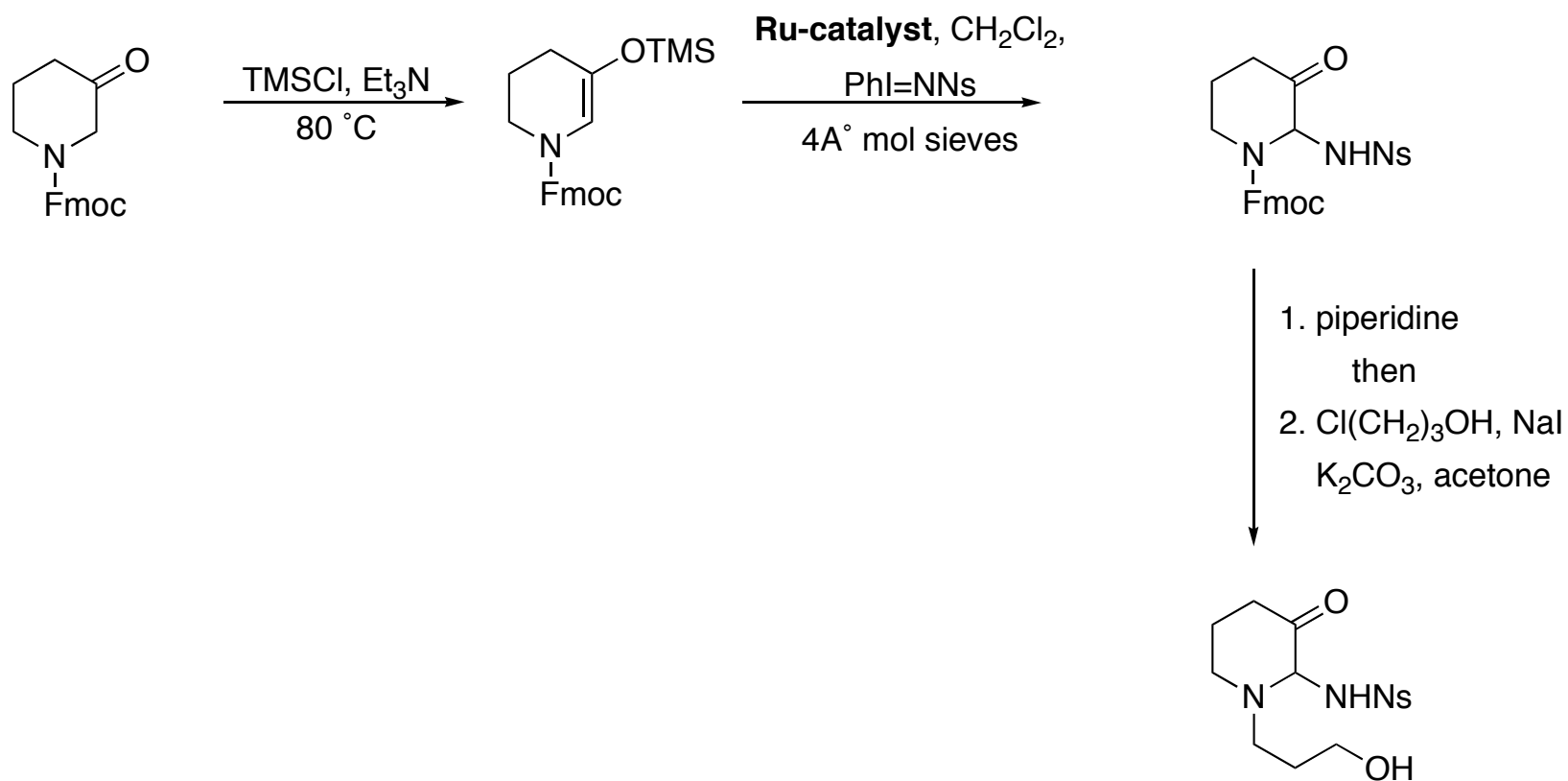
Schiff Base formation:

Bioorg. Med. Chem. Lett. **2006**, *16*, 5859.

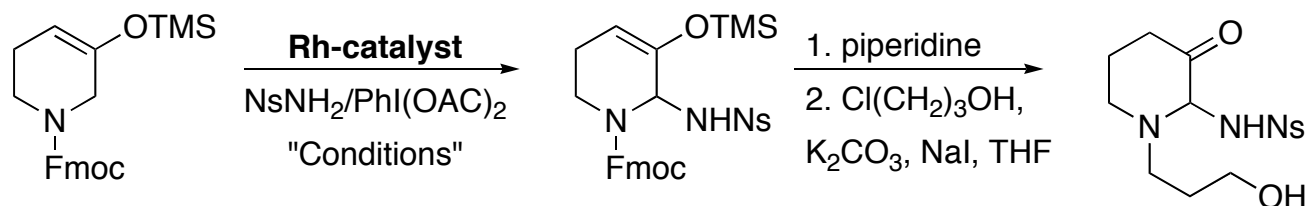
bis N-alkylation using CH₂I₂:

Chem. Pharm. Bull. **1970**, *18*, 1987.

Formation of the Key Intermediate



Alternative C-H Amination Approach



entry	Rh-catalyst	conditions	Ref.
1	Rh ₂ (S-PTAD) ₄ or Rh ₂ (S-PCPTAD) ₄	Ph-CF ₃ , rt	Davies, H. M. L.; <i>Org. Lett.</i> 2006 , <i>8</i> , 5013
2	Rh ₂ (esp) ₂	PhMe, 40 °C	Du Bois, J.; <i>Org. Lett.</i> 2006 , <i>8</i> , 1073

