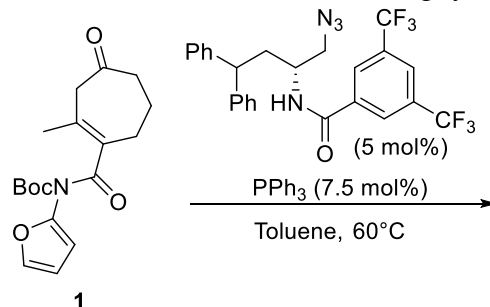
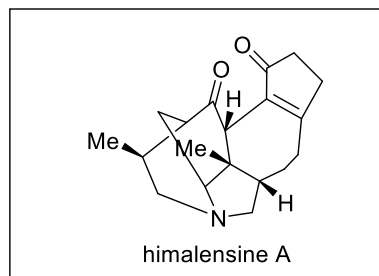
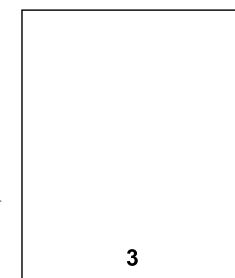


Total Synthesis of (-)-Himalensine A

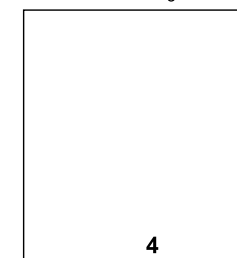
H. Shi, I. N. Michaelides, B. Darses, P. Jakubec, Q. N. N. Nguyen, R. S. Paton, D. J. Dixon, *J. Am. Chem. Soc.* **2017**, *139*, 17755–17758.



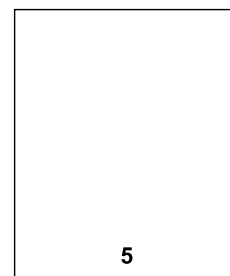
1. TFA, DCM
2. H₂, Pd(OH)₂, NaHCO₃, MeOH



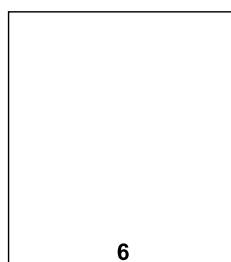
1. NaHMDS, Br
15 min
2. LAH, THF, -10°C
then HCl, MeOH/H₂O
then NEt₃, MsCl



1. 2,6-lutidine, TIPSOTf, DCM
2. SnBu₃H, AIBN, PhMe, 90°C
3. CSA, DCM

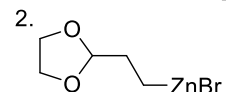


1. [Ir(COD)PCy₃Py]PF₆, H₂/Ar (1:2), DCM
2. NBS, DCM
3. PTSA, O₂, Pyridine, 115°C



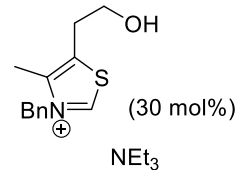
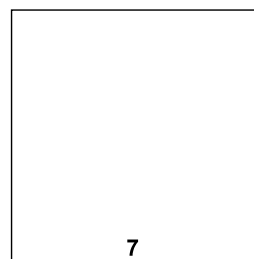
name of Ir?

1. NaHMDS, PhNTf₂



Pd₂dba₃, DTBPF, NMP

3. HCl(aq.), THF



[Ir(CO)(PPh₃)₂Cl] (10 mol%)
TMDS, toluene
then MeOH, HCO₂H, 60°C

himalensine A

name of Ir, mechanism?

Total Synthesis of (-)-Himalensine A - Solutions

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