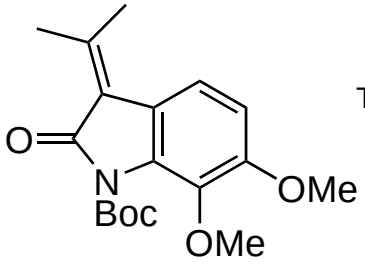
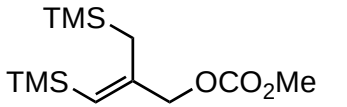
Trost and coworkers have recently employed this methodology in the total synthesis of marcfortine B...



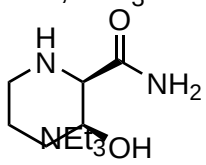


$Pd(OAc)_2$, $P(OiPr)_3$
Δ

1. Me_2SO_4, K_2CO_3
2. mCPBA
3. DBU

60% over 4

1. MsCl, NEt_3
2.

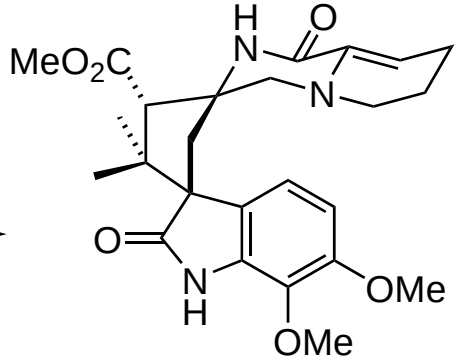


3. MsCl, NEt_3 then DBU
4. $SnCl_4$

75% over 4

KHMDS

quant.



1. $PMBCl$, K_2CO_3
2. DIBAL
3. KHMDS, CS_2
4. MeI

61% over 3

1.7 eq AIBN
0.2 eq $SnBu_3H$

61%

Does anything about this rxn look unusual? Why? Provide a mechanitic rationale.

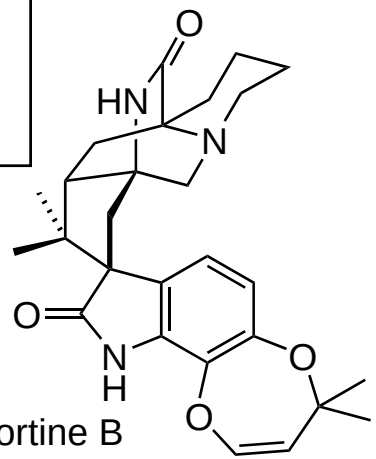
1. Crabtree's cat, H_2
2. TFA
3. BBr_3
4. prenylbromide, KI, Cs_2CO_3

50% over 4

1. mCPBA
2. $SnCl_4$
3. $MeP(OPh)_3I$, DMPU

42% over 3

BMatt



(±) marcfortine B

JACS ASAPs