A Cascade Strategy Enables a Total Synthesis of (±)-Morphine

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1) TMEDA, sec-BuLi, then B(OMe)$_3$, NaOH, H$_2$O$_2$
2) i, aq. NaOH
3) NaBH$_4$ 0°C then citric acid
4) ii, Pd(dppf)Cl$_2$·CH$_2$Cl$_2$, Cs$_2$CO$_3$, 40°C
5) (500 W Hg), DCE/HFIP, rt

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How would you make ii?

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Provide the mechanism for step 10 (next page)

Reaction of ruthenium alkylidene with the allyl component followed by intramolecular reaction with the alkyne to give a new ruthenium alkylidene intermediate which undergoes ring closing methathesis with the α,β-unsaturated ketone. The reaction afforded product B in 94 % isolated yield as a sole product.
Mechanism for step 10

11) TFA, rt, then aq. Na$_2$CO$_3$
12) HCl then aq. NaOH
13) NaBH$_4$
14) BBr$_3$