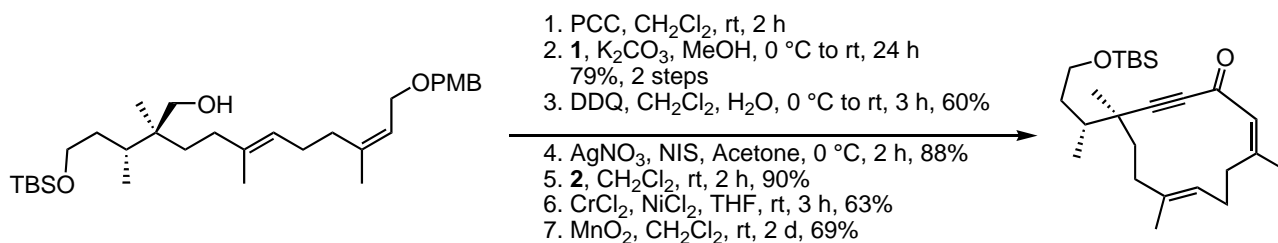


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8. HF/pyridine, THF, 0 °C, 2 h, 98%
 9. $n\text{-Pr}_4\text{N}^+\text{RuO}_4^-$, NMO, MS 4A
 CH_2Cl_2 , rt, 2 h, 73%

10. MgI_2 , THF, 0 °C to rt, 24 h, 60%
 11. PNBOH, PPh_3 , DEAD, benzene, rt, 2 d
 12. K_2CO_3 , MeOH, rt, 30 min, 52%, 2 steps
 13. $\text{BF}_3 \cdot \text{OEt}_2$, CH_2Cl_2 , -40 °C, 2 h, 20%

