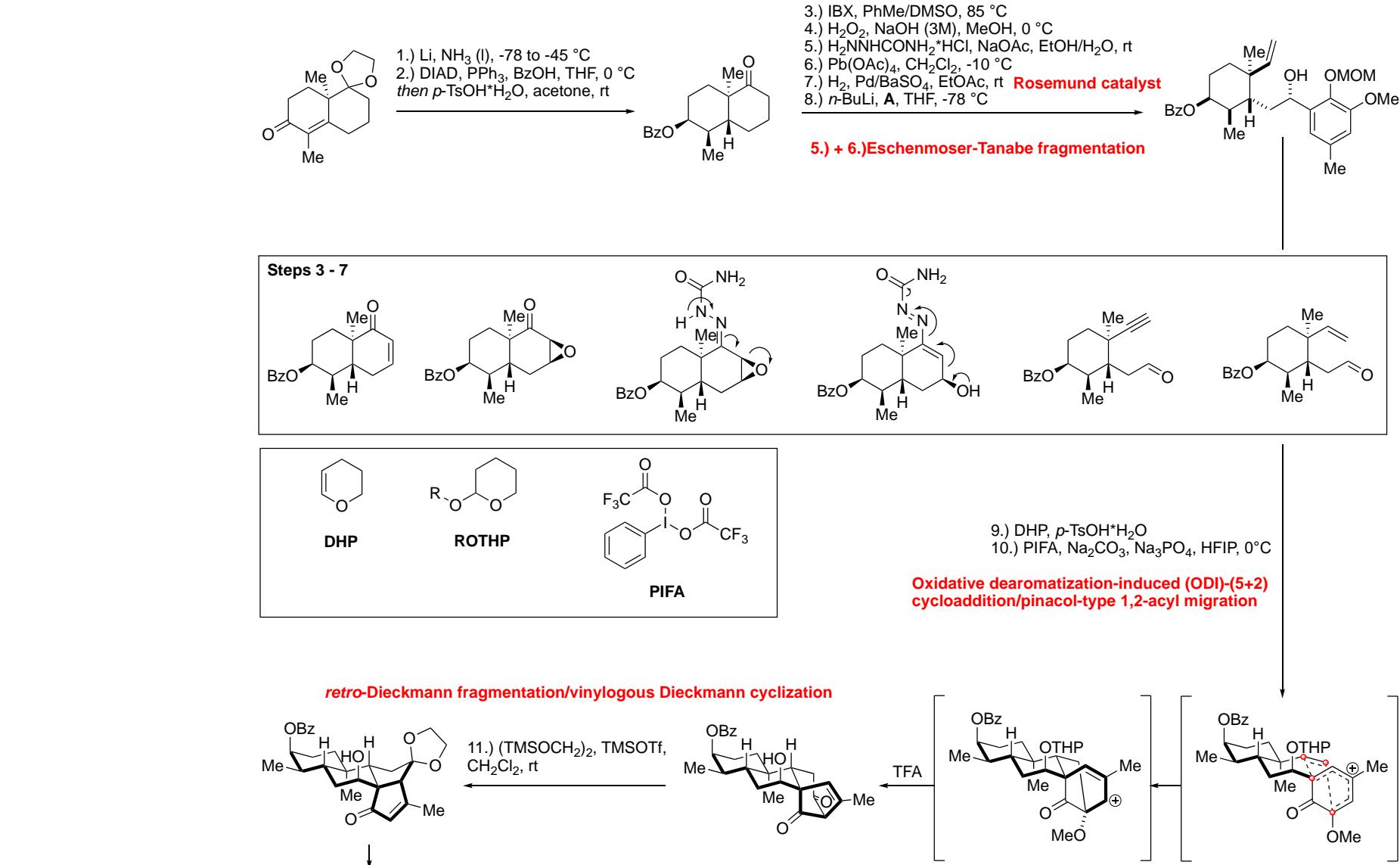
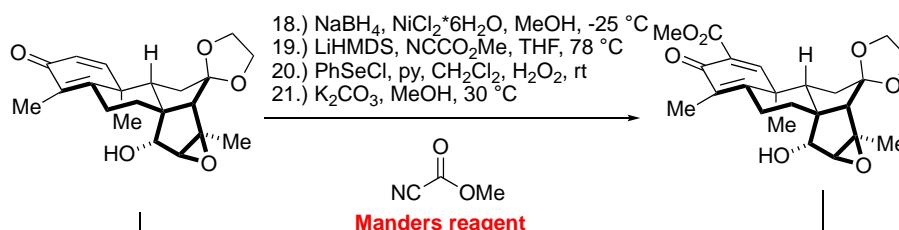


E133: (-)-rhodomollanol

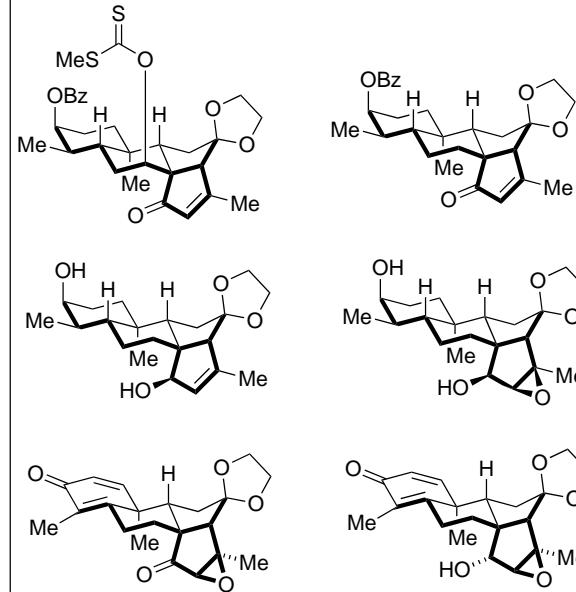


E133: (-)-rhodomollanol

- 12.) NaH, CS₂, MeI, THF, 65 °C **Barton-McCombie Deoxygenation**
 13.) AIBN, *n*-Bu₃SnH, toluene, 60 °C
 14.) DIBAL-H, CH₂Cl₂, -78 °C
 15.) VO(acac)₂, TBHP, CH₂Cl₂, 0 °C
 16.) (PhSeO)₂O, py, toluene, 90 °C
 17.) NaBH₄, CeCl₃*7 H₂O, MeOH/CH₂Cl₂, -20 °C **Luche reduction**



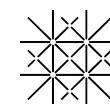
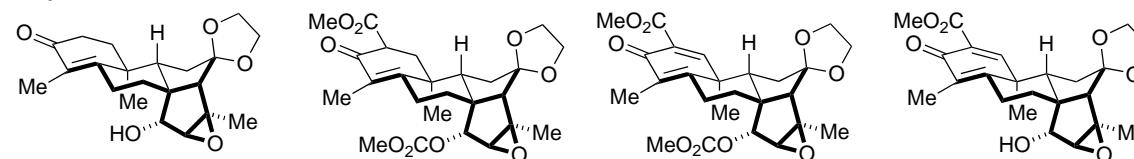
Steps 12 - 17



22.) hν (254 nm),
AcOH, 18 °C

Photo-Nazarov cyclization/intramolecular cycloetherification cascade

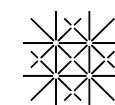
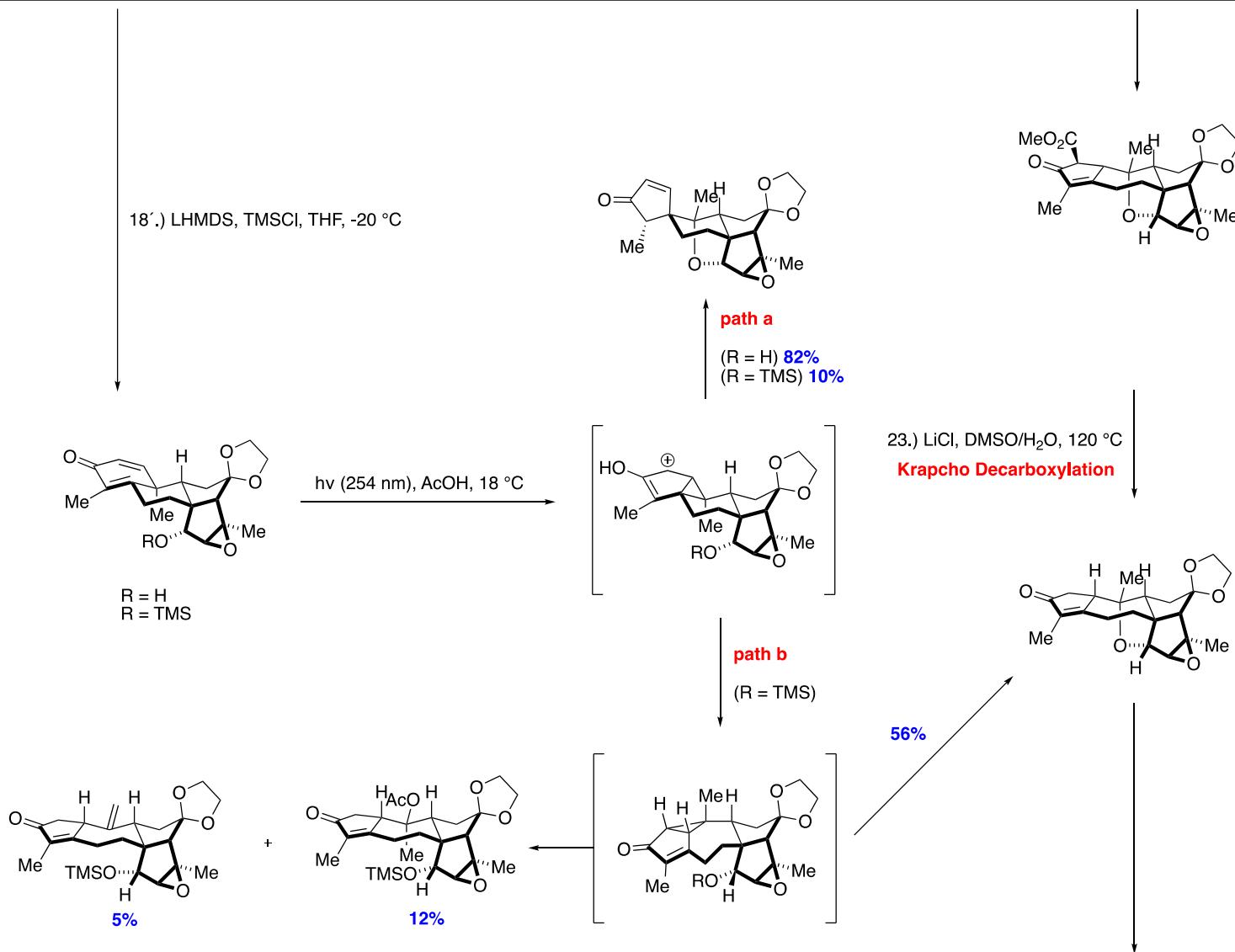
Steps 18 - 21



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E133: (-)-rhodomollanol

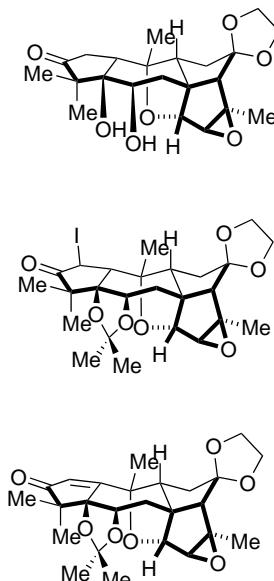
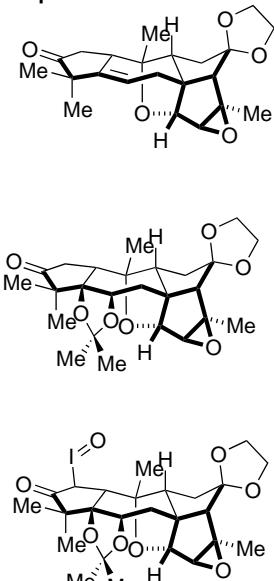


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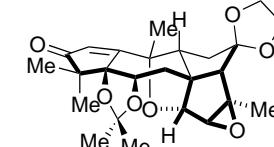
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E133: (-)-rhodomollanol

Steps 24 - 27

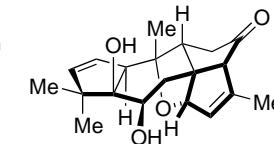


- 24.) DMSO, NaH, MeI, anhyd. HMPA, rt
 25.) OsO₄, py, rt
 then aq. NaHSO₃
 26.) PPTS, 2-methoxy-propene, CH₂Cl₂, 40 °C
 27.) LiHMDS, NIS, THF, 0 °C
 then *m*-CPBA, CH₂Cl₂, rt

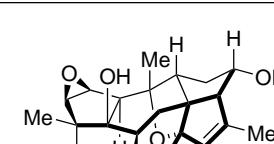


- 28.) TsNNH₂, PPTS, THF, 60 °C
 29.) NaBH₃CN, AcCl, MeOH, rt
 then Et₃N
 30.) Cp₂TiCl₂, Zn, THF, 50 °C
 31.) NaH, CS₂, MeI, THF, rt
 32.) o-DCB, 150 °C
 then *p*-TsOH·H₂O, MeOH, 30 °C

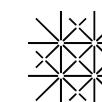
31.) + 32.) Chugaev Elimination



- 33.) VO(acac)₂, TBHP,
 CH₂Cl₂, 0 °C
 34.) NaBH₄, MeOH, 0 °C



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