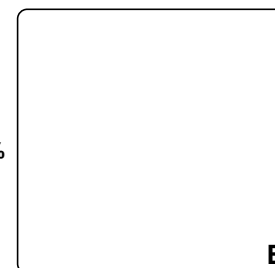


- i) Rawal's Diene, Co(Salen)-SBF₄,
4Å MS, DCM, 0 °C, 45 h, **65%**, **ee = 95%**
ii) NaBH₄, MeOH/THF (2:1),
0 °C, 40 min.,
then TFA, DCM, rt, 20 min., **67%**



- i) **1**, AgOTf, Et₃N, 4Å MS,
DCM, rt, 30 min., **81%**
ii) MsCl, DCM, 0 °C, 1.5 h
iii) TBAF, Et₃N, THF, 0 °C, 1.5 h **78%**



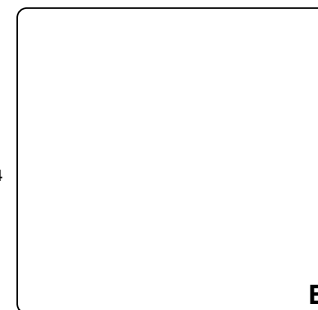
- i) I₂, pyridine, 24 h, **79%**
ii) **2**, Pd(OAc)₂, Cu(acac)₂,
Ph₃As, THF, 64 °C, 14 h, **70%**
iii) NaOH, THF/H₂O (1:1),
0 °C to rt, overnight
then BnBr, 15 °C, 3 h, **63%**



- i) TMSN₃, NbCl₅, MeCN,
rt, 21 h, **78%**
ii) Me₃P, THF/H₂O (4:1),
0 °C, 30 min., **88%**



- TPAP, RuO₂, NMO,
4Å MS, DCM, rt, 30 min.
then MeOH, 0 °C, SiO₂, NaBH₄
48%



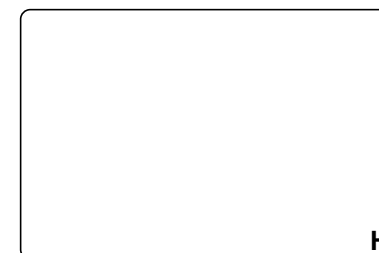
- NaN₃, [BMIM]BF₄,
70 °C, 21 h
then Boc₂O, Et₃N,
DCM, 0 °C, 40 min.
73%



- i) **3**, MeNO₂, 60 °C, 18 h
ii) Pd/C, H₂, MeOH, rt, 2.5 h
64%



- PIDA, CsCO₃, 0 °C, HFIP,
45 min.
76%





Total Synthesis of (+)-KB343

Cheng Bi, Yu Wang, Chi He, Phil S. Baran*; *J. Am. Chem. Soc.* 2023, 145, 7753–7757

