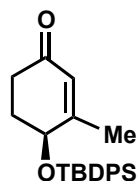


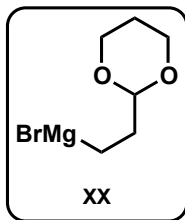
A Concise, Stereocontrolled Total Synthesis of Rippertenol;

Snyder, S.A.; Wespe, D.A.; von Hof, J. M. J. Am. Chem. Soc. 2011, 133, 8850 - 8853



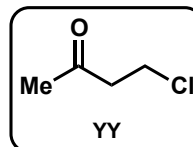
a) LDA (1.1 equiv), MeI (2 equiv), THF, -78 °C to r.t., 12 h, 88 % (94 % brsm)

b) **XX** (2.5 equiv), CuBr•SMe₂ (0.63 equiv), THF, -78 to -50 °C, 5.5 h, 86%



A

c) **YY** (1.5 equiv), *p*-TsOH (0.1 equiv), PhH, 80 °C, 48h



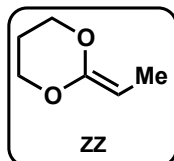
B

d) KO^t-Bu (0.2 equiv), *t*-BuOH, THF, r.t., 45 min, 43% (2 steps)

e) MsCl (6.0 equiv), Et₃N (15 equiv), DCM, 0 °C, 30 min, 72%

C

f) **ZZ** (2 equiv), BF₃•OEt₂ (0.9 equiv), DCM, -78 °C, 10 min, 68%, 2.6 : 1 dr



D

g) Zn (12.1 equiv), CH₂Br₂ (4.0 equiv), TiCl₄ (3.0 equiv), THF, 25 °C, 16 h, *then* HCl, 46%

h) (Ph₃P)₃RhCl (0.15 equiv), H₂ (1.5 atm), PhH, 25 °C, 12 h, 98%

E

i) BF₃•OEt₂ (1 equiv), TMSCHN₂ (1 equiv), DCM, -78 °C to -50 °C, 3.5 h, 21% (71% brsm)

F

j) NaBH₄ (5.0 equiv), MeOH/THF (2:1), 0 °C to r.t., 1 h, 93%
k) 1,1'-TCDI (10 equiv), DMAP (0.25 equiv), THF, refl, 16.5 h, 66%

l) *n*-Bu₃SnH (10 equiv), AIBN (0.25 equiv), PhMe, refl, 15 min, 69%
m) TBAF, THF, 45 °C, 20 h, 93%

