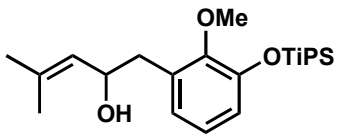
Denksport

26.02.20



A

1.) $Hg(OAc)_2$, AcONa, *n*-BuOCH=CH_2, 94 °C
2.) N_2CHCO_2Et, $SnCl_2$, DCM, RT

B

3.) TsN_3, Et_3N, MeCN, 30 °C
4.) **Cu(tbs)$_2$**, PhMe, 115 °C

C

5.) TMSOTf, $(CH_2OTMS)_2$ DCM, 0 °C

D

6.) NBS, THF/H_2O, 0 °C
7.) *t*-BuOK, H_2, Pd/C, THF, -78 °C to 30 °C
8.) LDA (xs), $MeP(O)(OMe)_2$, $(CH_2O)_n$, THF, 0 °C

E

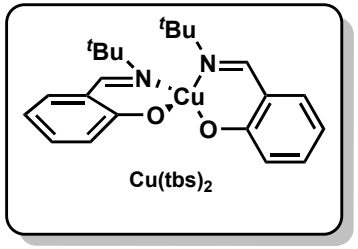
9.) TBAF, THF, 0 °C, then $PhI(OAc)_2$, MeOH, 65 °C

F

10.) SmI_2, THF/MeOH, 0° to RT
11.) DMDO, DCM, 0° to RT

G

12.) Cp_2TiCl_2, Mn, *sym*-collidine•HCl, DCE, RT to 50 °C
13.) Ac_2O, Et_3N, 4-DMAP



Cu(tbs)$_2$

H

14.) Cp_2TiMe_2, PhMe, 85 °C then TsOH•H_2O
15.) PhSeCl, Py, DCM, 0 °C
16.) $Co(acac)_2$, $PhSiH_3$, O_2, *i*PrOH, 0 °C

I

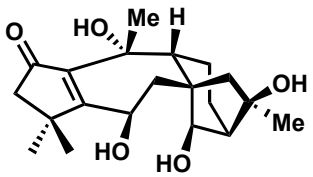
17.) TBSOTf, Et_3N, DCM, 0 °C

J

18.) MeMgBr, PhMe, 0 °C

K

then HCl 2M



Rhodomollein XXII

19.) $MeReO_3$, H_2O_2, Py, MeCN/AcOH, 0°C then PPTS

Rhodomollein XX