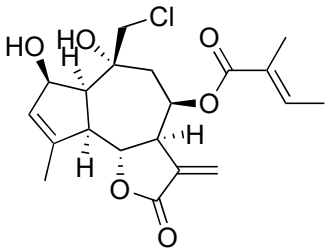
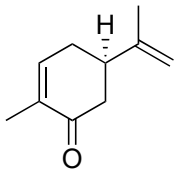


Eupalinilide E (**1**)

JACS, **2016**, *138*, 6068-6073.



Name?

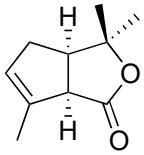
1) HBr
2) Br_2

2

1) i-$PrNH_2$
2) 10% aq. AcOH

50% over 4 steps

Name of the reaction?
Mechanism?



1) $LiAlH_4$
2) Ac_2O, 150 °C

60% over 2 steps

3

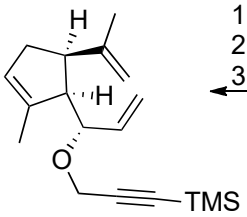
1) $LiAlH_4$
2) DMP, $NaHCO_3$

75% over 2 steps

4

1) tetravinyl tin, n-BuLi
2) propargyl bromide, HMPA
3) TMSCl, n-BuLi

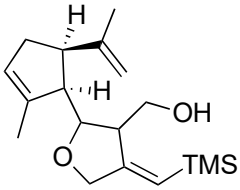
62% over 3 steps



1) $Pd(OAc)_2$, B_2pin_2
2) H_2O_2, NaOH

62%

Mechanism?



$(COCl)_2$, DMSO, Et_3N

99%

5

Et_2AlCl

99%

6

tiglic acid, 2,4,6-TCBC,
Et_3N, DMAP

90%

Name of the reaction?
Mechanism?

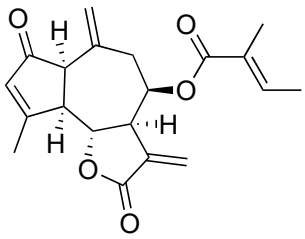
7

TFA

8

CrO_3, 3,5-DMP

36 % over 2 steps

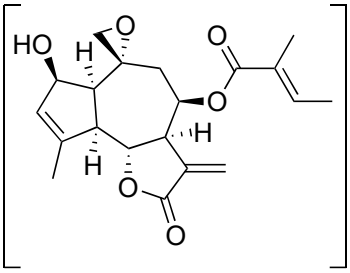


$Yb(OTf)_3$, $NaBH_4$

75%

9

$Al(Os\text{-}Bu)_3$, TBHP



LiCl, HCl

86% over 2 steps

1