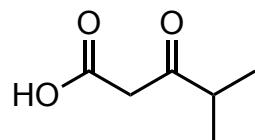


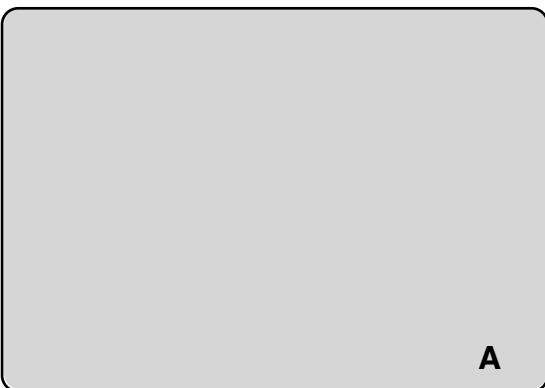
β -Ketoesters as Mono- or Bisnucleophiles: A concise Enantioselective Total synthesis of (-)-Englerin A and B

Guo, L.; Plietker, B.

Angew. Chem. Int. Ed. **2019**, *58*, 8346-8350.

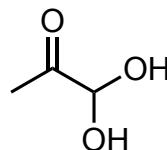


1-5

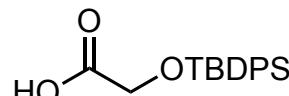


6-8

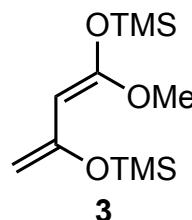
- 1) 1, (DHQD)₂PHAL in THF/trifluoroethanol
- 2) 2, Et₃N, DMAP, 2,4,6-trichlorobenzoyl chloride
- 3) 3, cat. TMSOTf
- 4) LiHMDS, DMPU, *then* 4
- 5) LiCl, wet DMSO



1



2



3



4

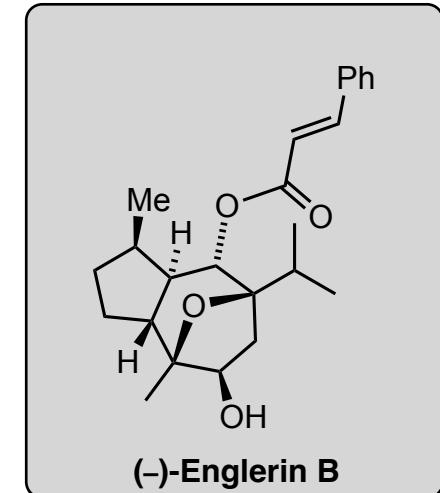
- 6) KHMDS, PhNTf₂
- 7) (a) Pd(PPh₃)₂Cl₂, Et₃N
(b) *then* MeSiCl₂H
(c) *then* H₂O₂
- 8) TPAP, NMO

1) What is the name of compound 1?
Please classify the reaction

2) Name of the reaction?

5) Name of the reaction?

7) a) Name of the reaction?
c) Name of the reaction?



(-)-Englerin B

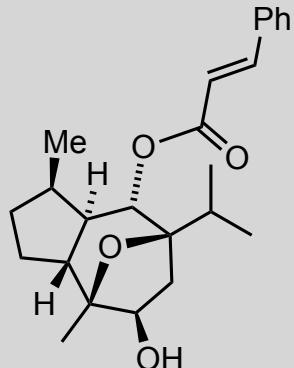
B

9-11

- 9) (S)-CBS, BH_3
- 10) H_2 Pd/C
- 11) Cinnamoyl chloride, Et_3N , DMAP
then TBAF
- 12) K_2CO_3 , MeOH/H₂O

(-)Englerin A

12



(-)Englerin B