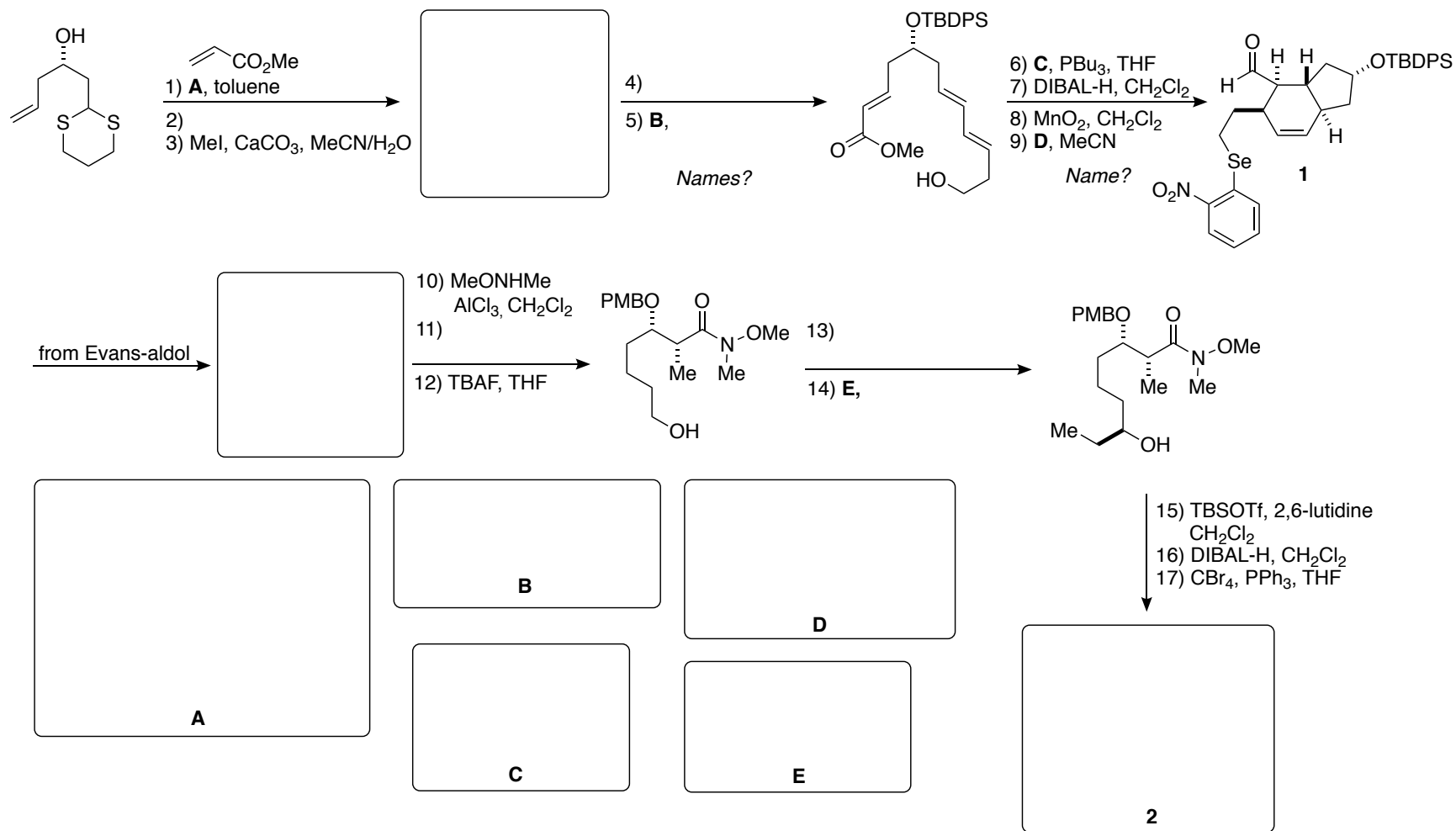


E48: Total Synthesis of (-)-Spinosyn A

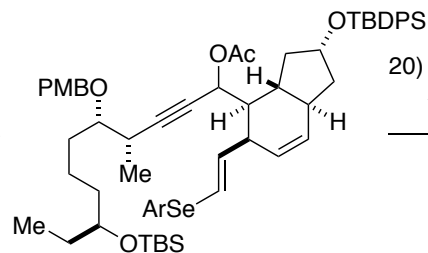




18) *n*-BuLi, THF
then **1**

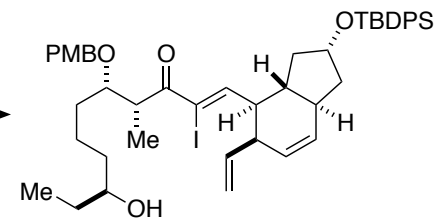
19)

Name?



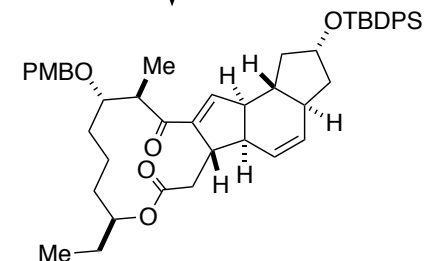
20) PPh₃AuNTf₂ (50 mol%)
AgNTf₂ (3.0 eq)
NIS (2.5 eq)
acetone/H₂O, 800:1
-15 °C, 58%

Mechanism?



21)

Name?



22) HF-pyridine, THF
23) **F**, TMSOTf, CH₂Cl₂
24) DDQ, CH₂Cl₂
25) **G**, PPh₃AuCl, AgOTf, PhCl

Names?

(-)-Spinosyn A

