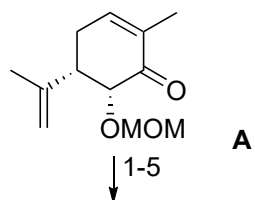


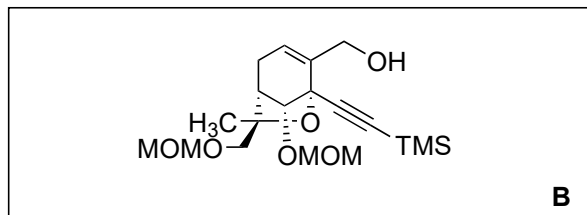
Synthesis Challenge 92

Enantioselective Synthesis of *Euonyminol*, M. Tomanik, Z. Xu, S. B. Herzon, *JACS*, 2021,

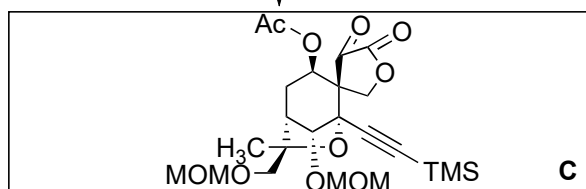
<https://dx.doi.org/10.1021/jacs.0c12998>



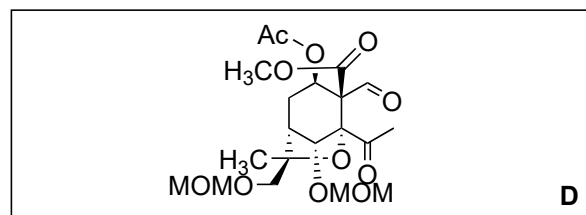
↓ 1-5



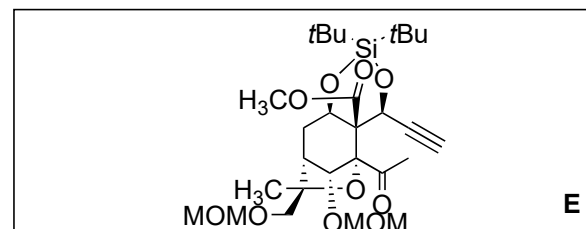
↓ 6-9



↓ 10-13



↓ 14-18

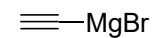
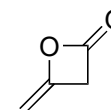
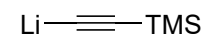


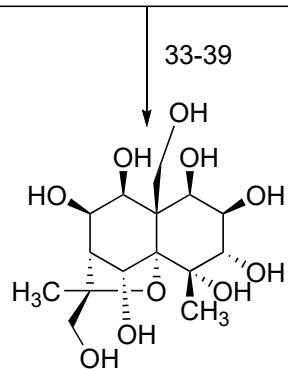
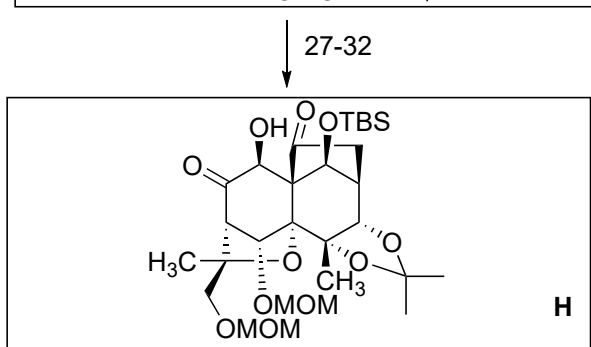
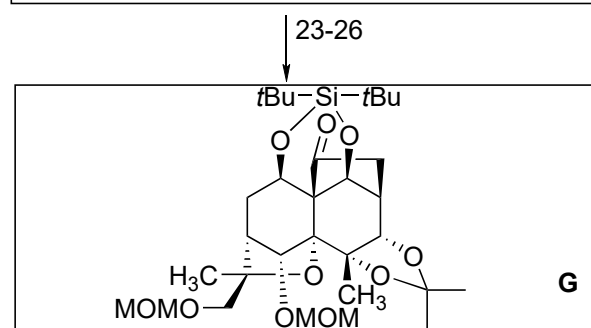
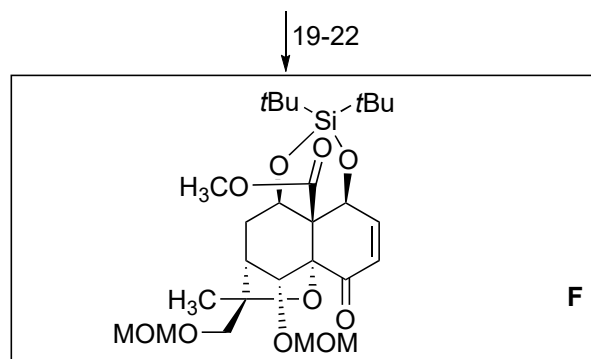
- 1) (-)-Ski ketone, oxone, K_2CO_3
- 2) **I**, then PPTS
- 3) MOMCL, iPr_2NET
- 4) SeO_2 , pyridine *N*-oxide
- 5) $NaBH_4$, $CeCl_3 \cdot 7H_2O$

- 6) **II**, DMAP
- 7) ((4-acetamido)benzenesulfonyl azide, NET_3
- 8) $Cu(TBS)_2$
- 9) O_3

- 10) Magnesium monoperoxyphthalate
- 11) $HF \cdot NET_3$
- 12) $Hg(OTf)_2$, tetramethylurea, H_2O
- 13) Dess-Martin-Periodinane, pyridine

- 14) **III**, $LaCl_3 \cdot 2LiCl$
- 15) Tf_2O , DMAP
- 16) HCl
- 17) K_2CO_3 , CH_3OH
- 18) $Si(OTf)_2(t-Bu)_2$





- 19) Pd/BaSO₄, H₂ (5 atm)
 20) O₃
 21) NaOEt, EtOH
 22) MsCl, Et₃N

- 23) CH₃Li*LiBr
 24) DMDO
 25) LiCl, 130°C
 26) PTSA, 2,2-dimethoxypropane

- 27) TBAF
 28) Dess-Martin-Periodinane, pyridine
 29) TBSOTf, NEt₃
 30) Pb(OAc)₄
 31) K₂CO₃, CH₃OH
 32) Al(CH₃)₃

- 33) NaBH₄, CeCl₃*7H₂O
 34) PTSA, 2,2-dimethoxypropane
 35) TBAF
 36) LiAlH₄
 37) AcOH, THF-H₂O
 38) Ac₂O
 39) NaOCH₃, CH₃OH

