Synthesis of Myrocin G

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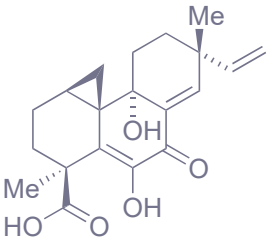
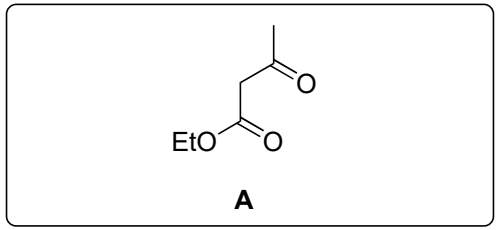


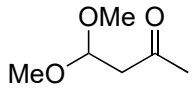
myrocin G



A

1'–5'

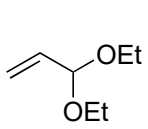
E



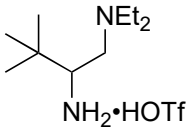
F

1–12

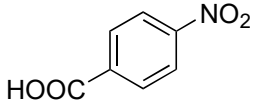
I



B



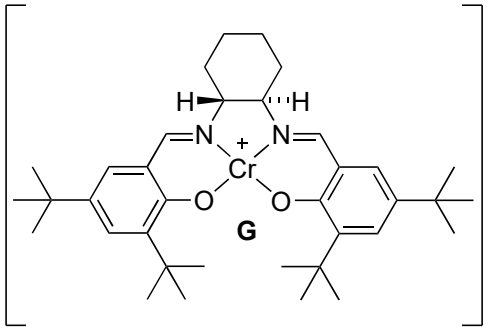
C



D

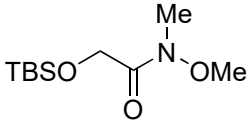
1') 2-(trimethylsilyl)ethan-1-ol, heat
2') MeI, K_2CO_3
3') B, C, D
4') I_2, pyridine
5') Me_3SOI, NaH

5) Namereaction?



G

SbF_6^-

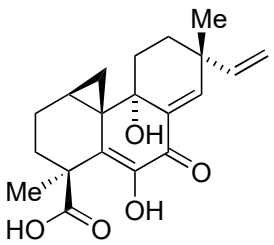


H

1) $BnNHCO_2Me$, PTSA
2) TBSOTf, NEt_3
3) methacrylaldehyde, **G**, 4ÅMS
4) KHMDS, Ph_3PCH_3Br
5) HCl
6) I_2, DMAP, pyridine
7) $(HOCH_2)_2$, PTSA, $(EtO)_3CH$
8) *n*-BuLi, **H**
9) TBAF
10) AllocCl, pyridine
11) HCl
12) LiHMDS, TMSCl

I

13–14



myrocin G

13) **E**, *n*-BuLi
14) TBAF

13) Propose a mechanism

Hint: **E** was mixed with *n*-Buli before **I** was added