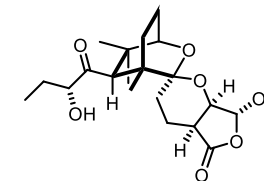


Total Synthesis of (±)-Leonuketal

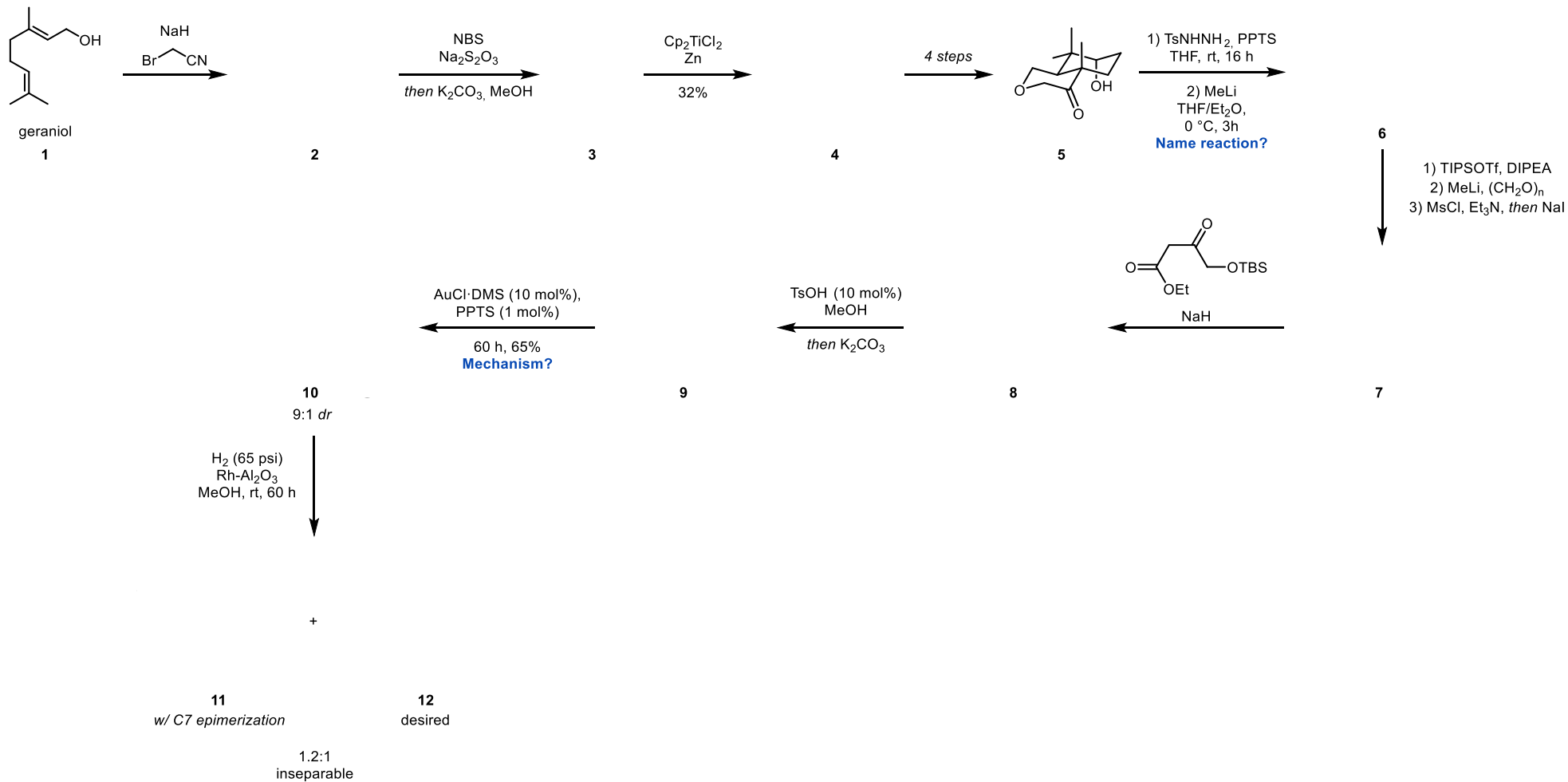
Phillip S. Grant, Daniel P. Furkert, and Margaret A. Brimble

Org. Lett. **2020**, 22, 21, 8735

- Isolated from Chinese Liverwort in 2015
- Vasorelaxant activity
- Complex tetracyclic structure



(±)-Leonuketal



1) LiOH, THF
2) DMP
3) PPTS (10 mol%),
EtOH, 45 °C, 24 h

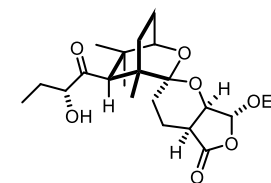
12

13
undesired diastereomer
can be separated

1) TBAF, THF
2) DMP, K₂CO₃
3) *n*PrMgBr, Et₂O, 1 h
4) DMP, K₂CO₃

14

O₂, LiHMDS
then P(OEt)₃



(±)-Leonuketal
1:1 *dr*
HPLC separation

