

Total Syntheses of Trichorabdal A and Maoecrystal Z

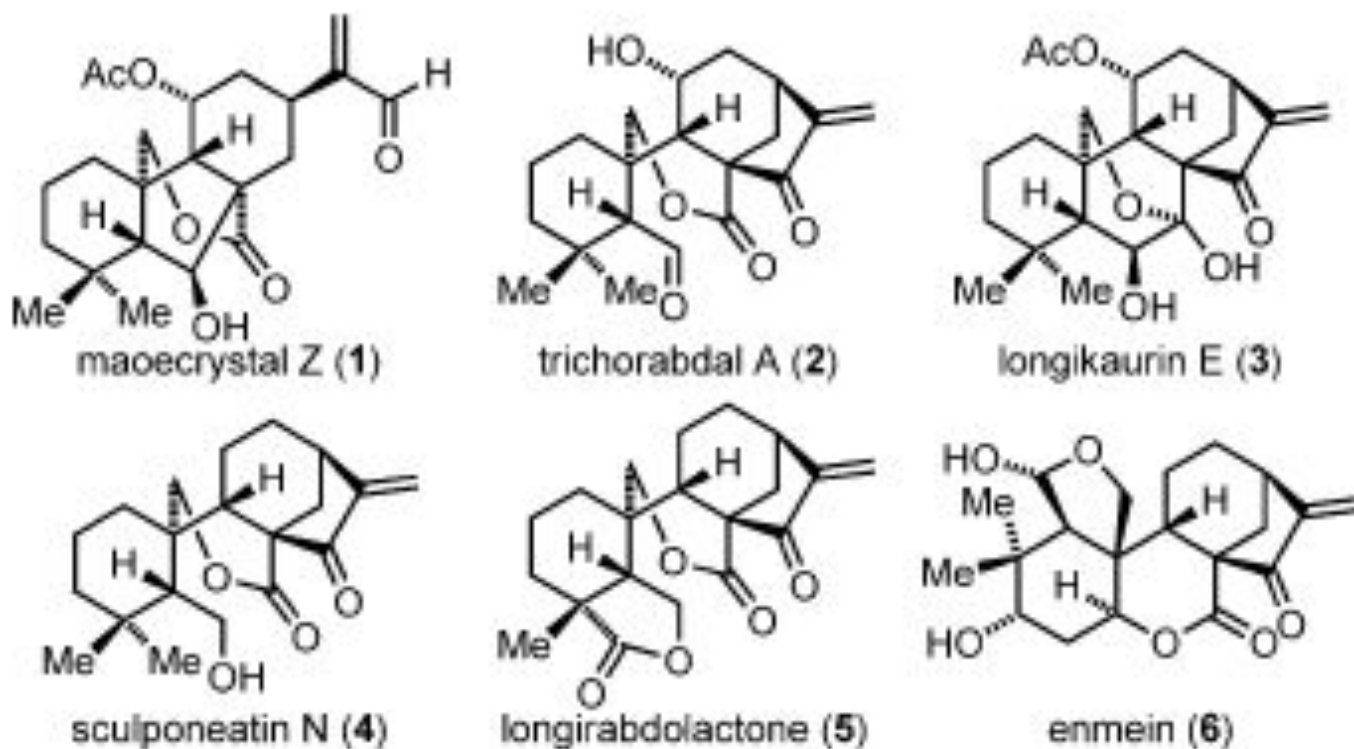
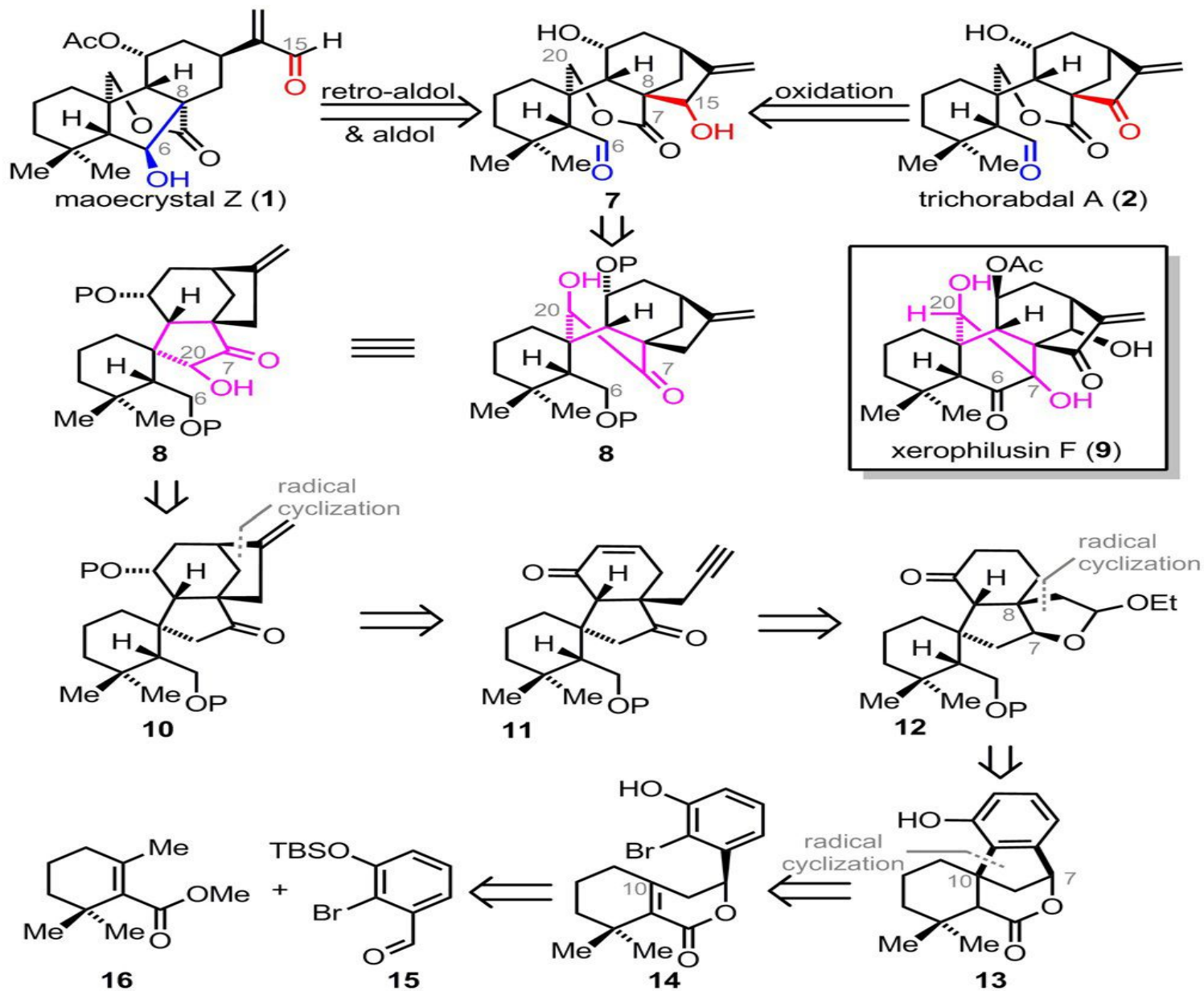
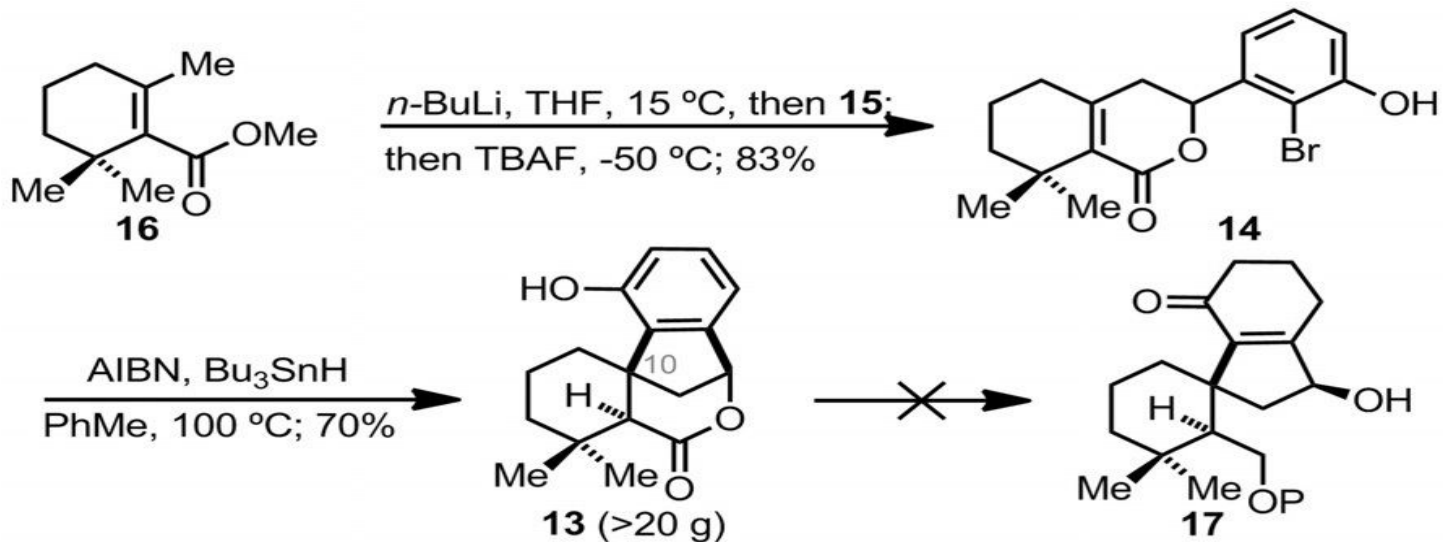


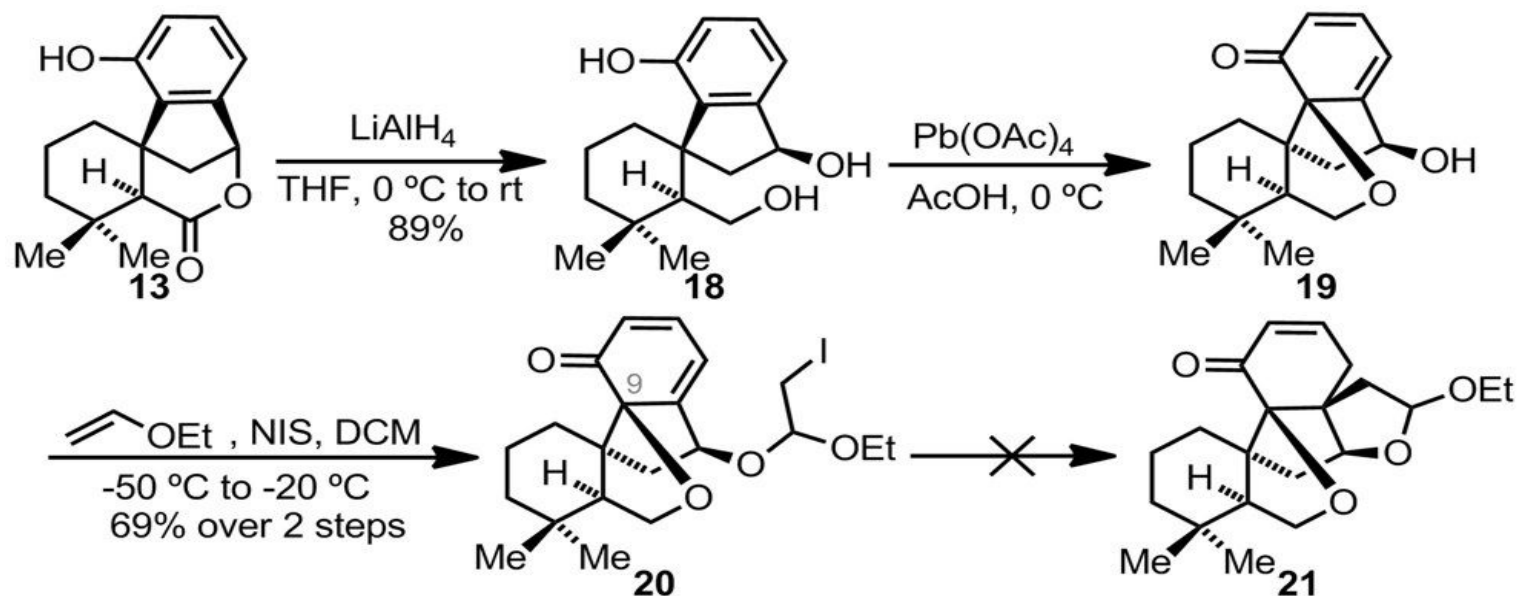
Figure 1. Some selected *Isodon* diterpenoids.



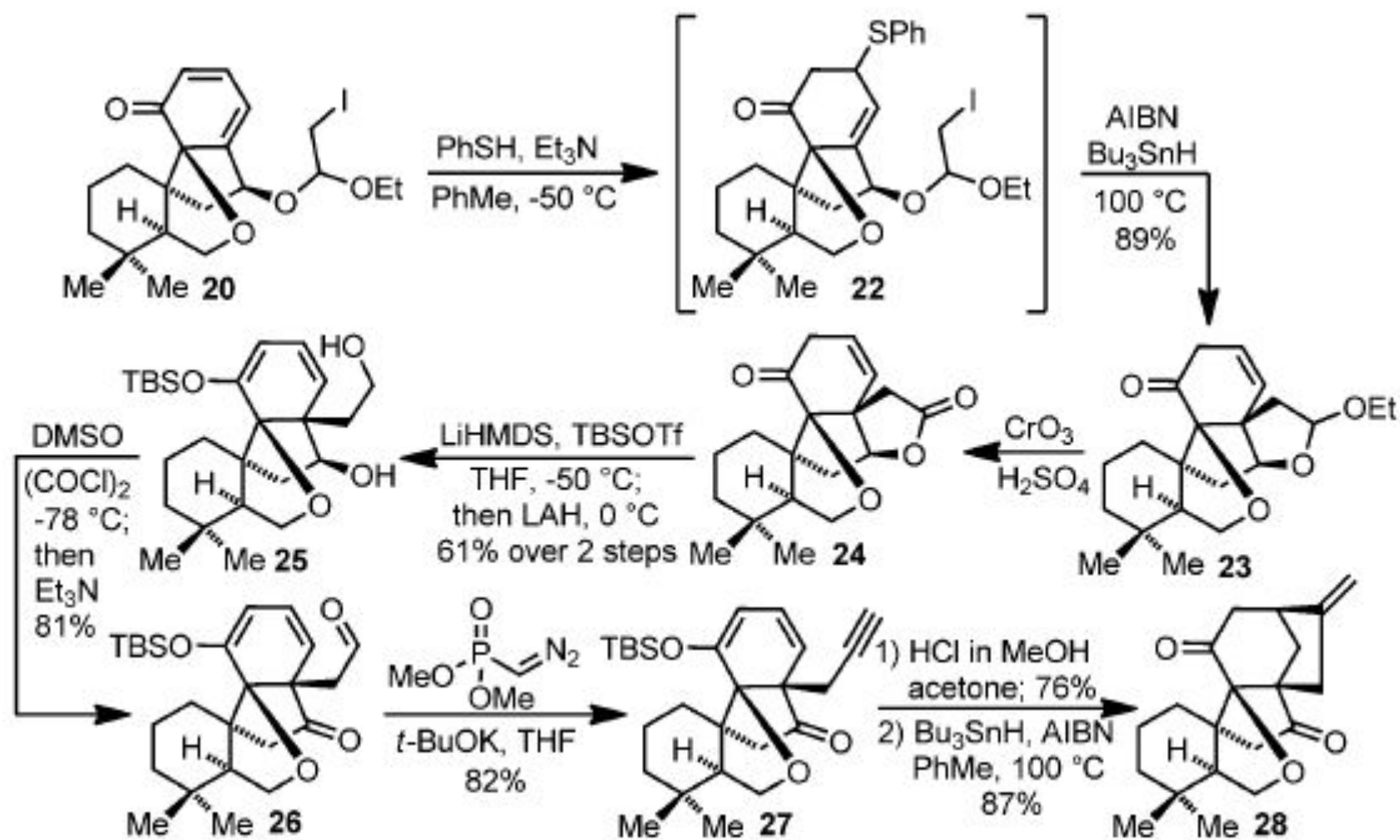
Scheme 1. Retrosynthetic analysis on maoecrystal Z (1) and trichorabdal A (2).



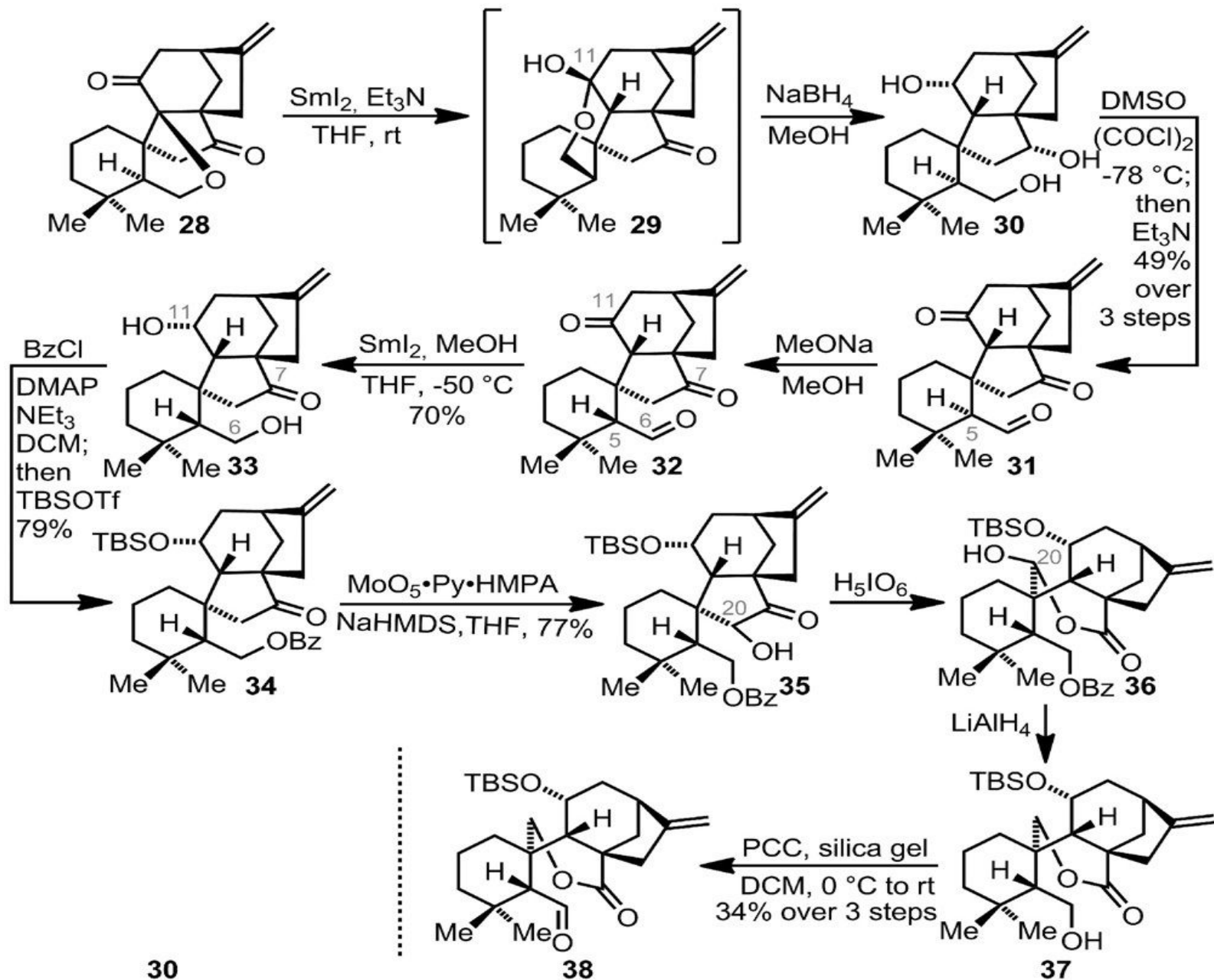
Scheme 2. Rapid construction of 13 via cross-ring radical cyclization.



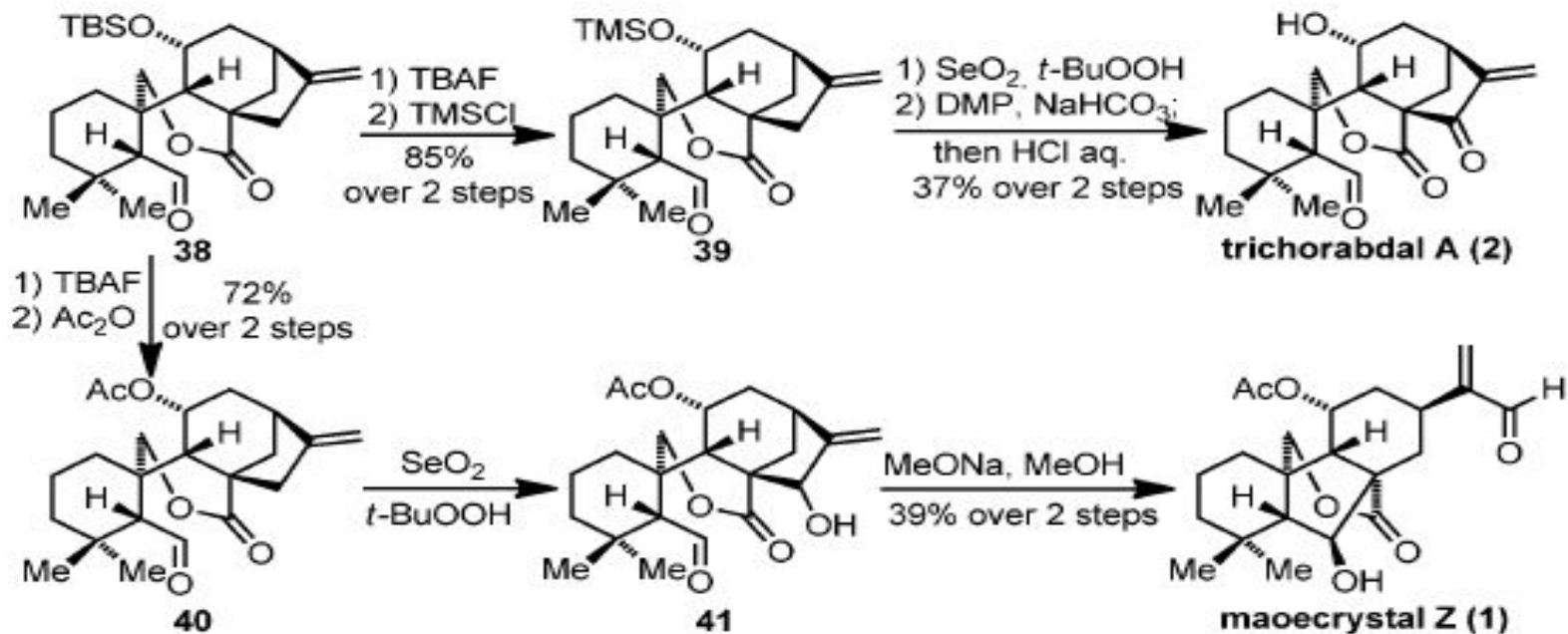
Scheme 3. Attempts on the formation of 17.



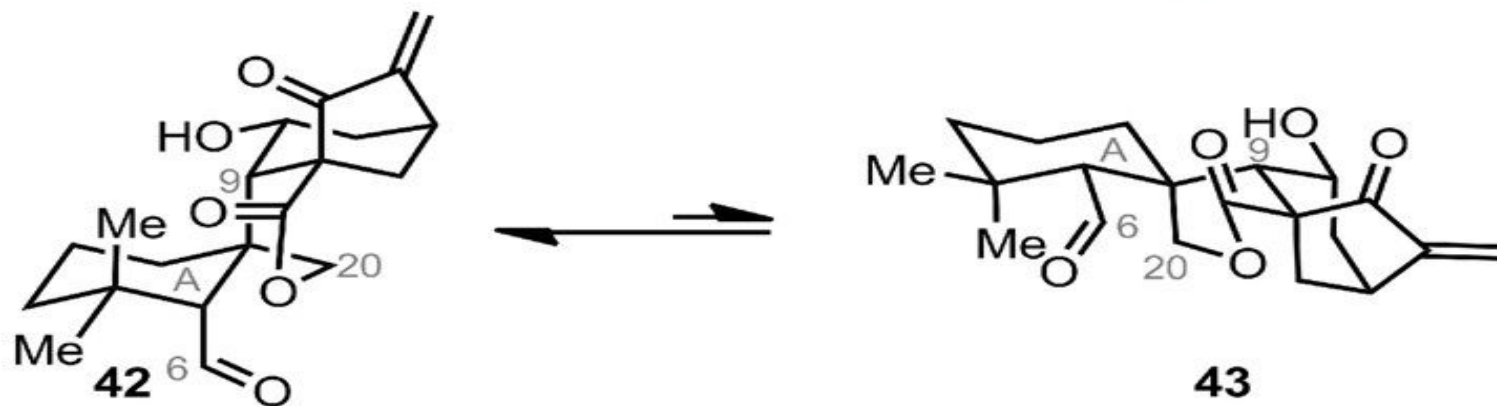
Scheme 4. The construction of bicyclo[3.2.1]octane ring system 28.



Scheme 5. Synthesis of the advanced intermediate 38.



Scheme 6. Total syntheses of trichorabdal A (2) and maoecrystal Z (1).



Scheme 7. Two chair conformations in the ring A of trichorabdal A (2).