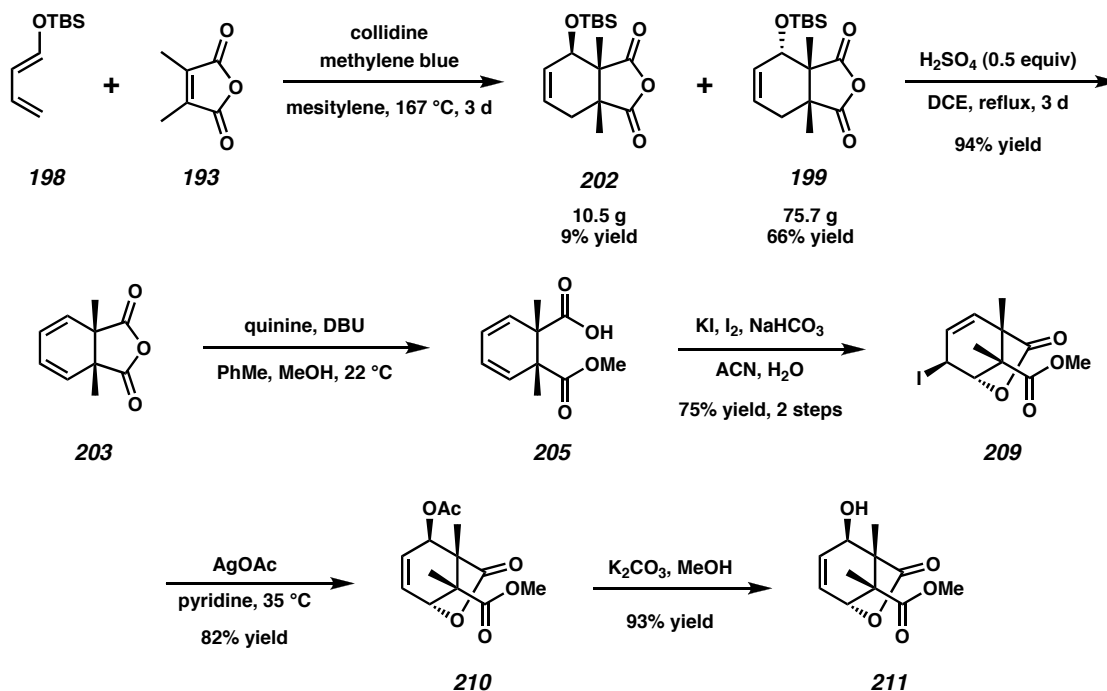
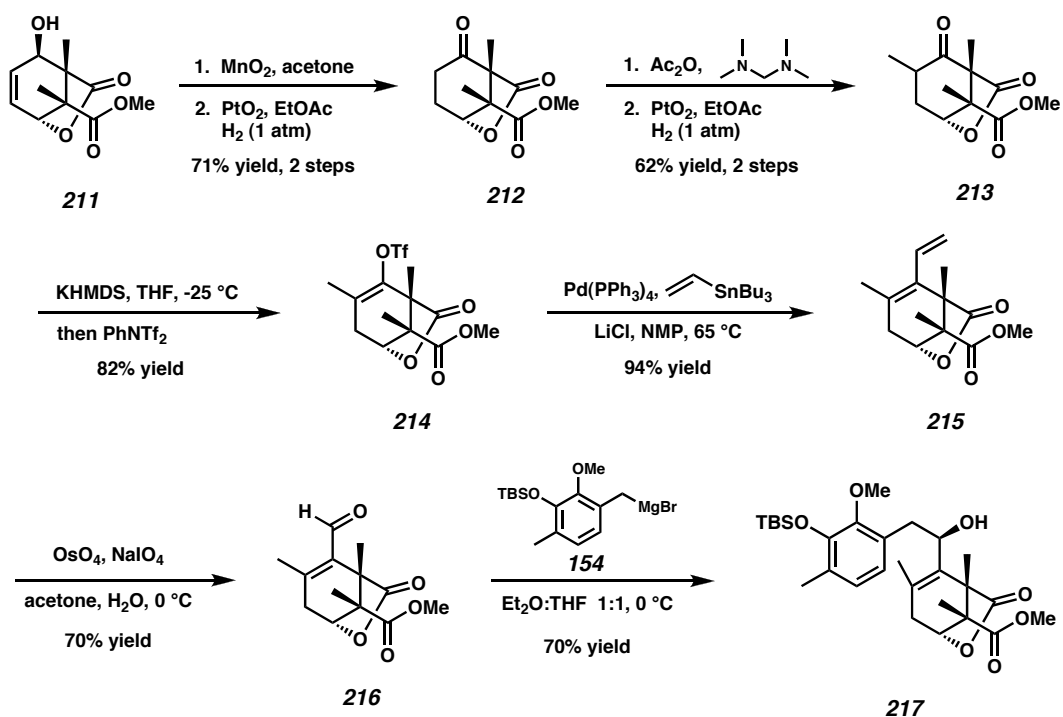


**APPENDIX FOUR****Synthetic Summary of Approaches Toward Advanced Zoanthenol ABC Ring  
Systems Containing Three Quaternary Stereocenters**

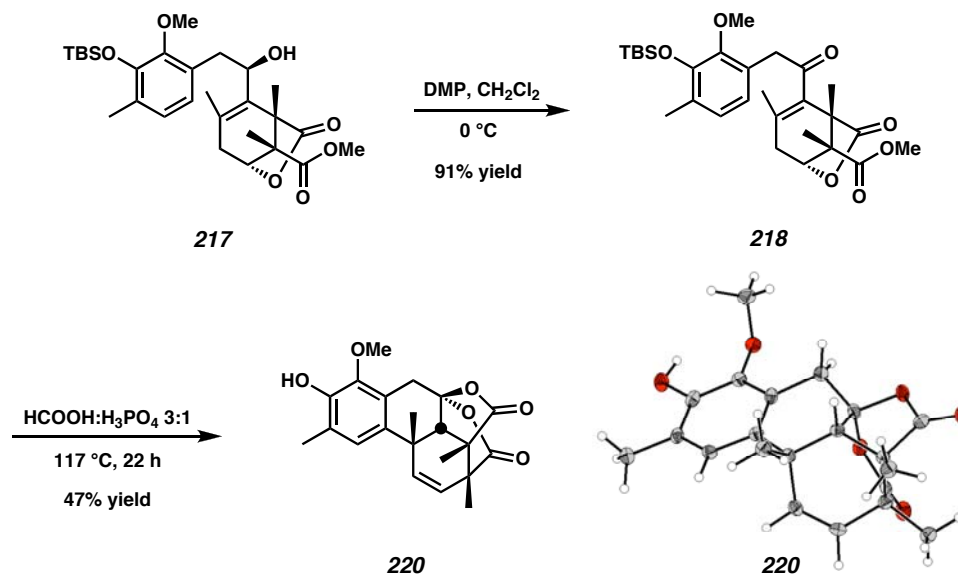
## Scheme A4.1: Synthesis of C Ring Precursor with Vicinal Quaternary Centers



## Scheme A4.2 Elaboration of the Lactone C Ring Synthone

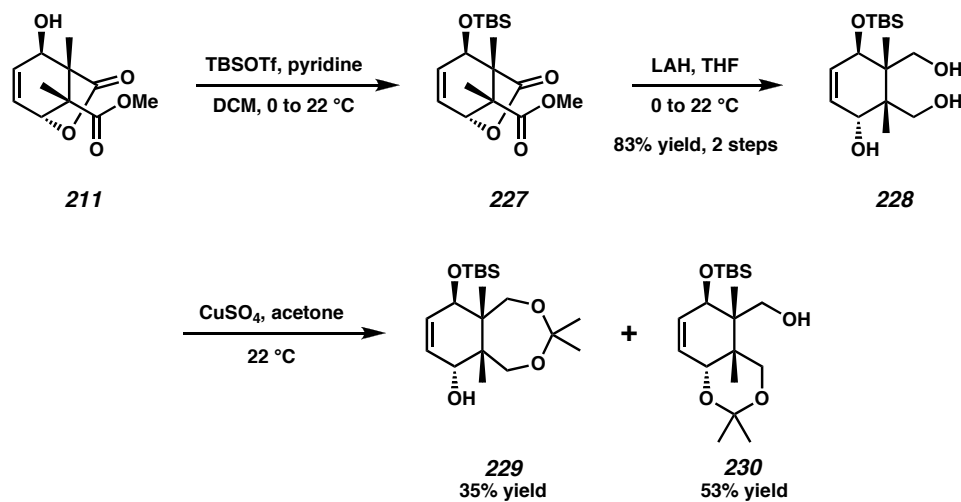


## Scheme A4.3 Completion and Cyclization of the Lactone C Ring Synthons

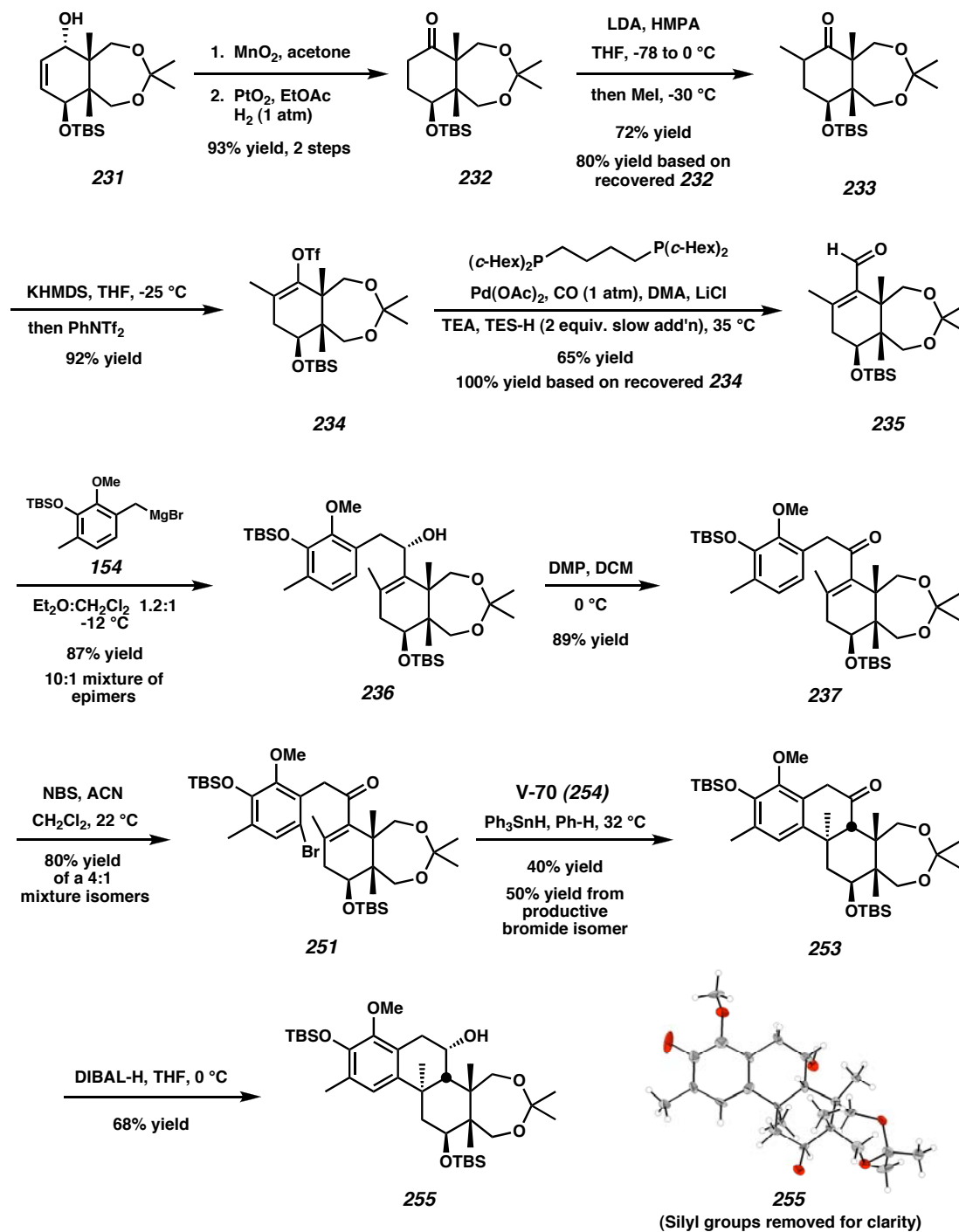


## Scheme A4.4 Common Steps of the 1,3-Dioxepane and Acetonide C Ring Synthons

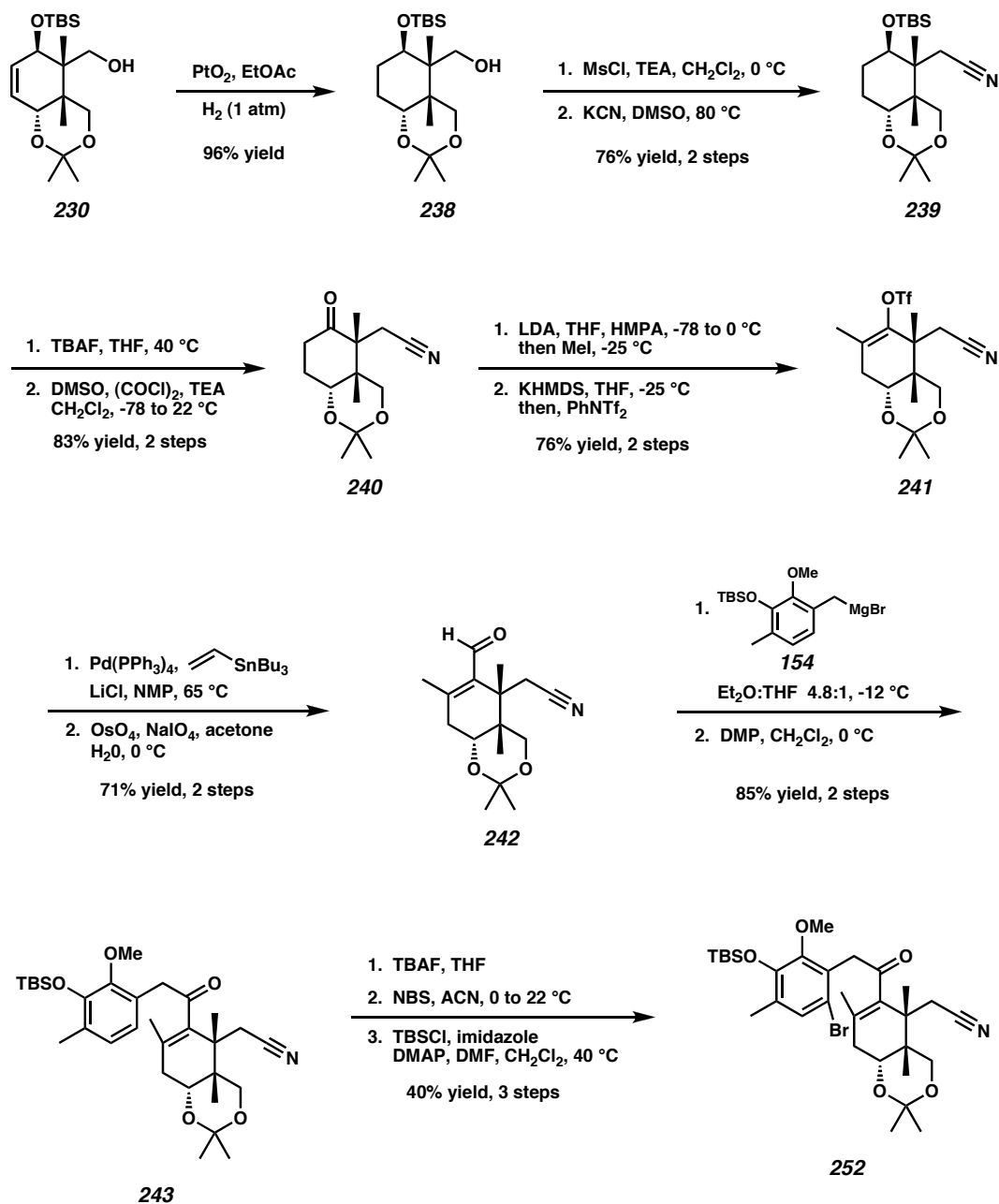
## Syntheses



## Scheme A.4.5 Synthesis and Cyclization of the 1,3-Dioxepane C Ring Synthons



## Scheme A4.6 Synthesis of the Nitrile Acetonide C Ring Synthon



## Scheme A4.7 Model C(1)-C(6) Fragment Coupling

