



Denksport

Maoecrystal V

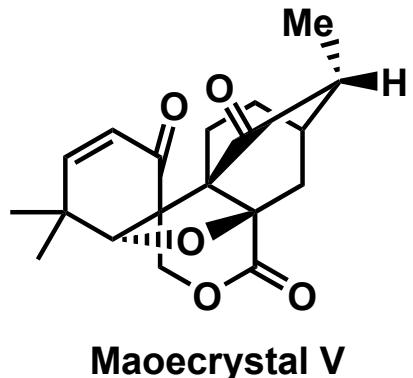
Julien GAGNEPAIN

Wien – 18/11/2010



Diterpenoid Isolated from the leaves of *Isodon Eriocalyx* in China

Han-Dong Sun *et al.* *Org. Lett.*, 2004, 6, 4327.



test substance	IC ₅₀ (μ g/mL)				
	K562	A549	BGC-823	CNE	HeLa
1	6.43×10^4	2.63×10^5	1.47×10^4	nd ^a	0.02
cis-platin	0.38	1.61	0.25	2.31	0.99

^a Not determined.

Synthetic Study toward the Total Synthesis of Maoecrystal V

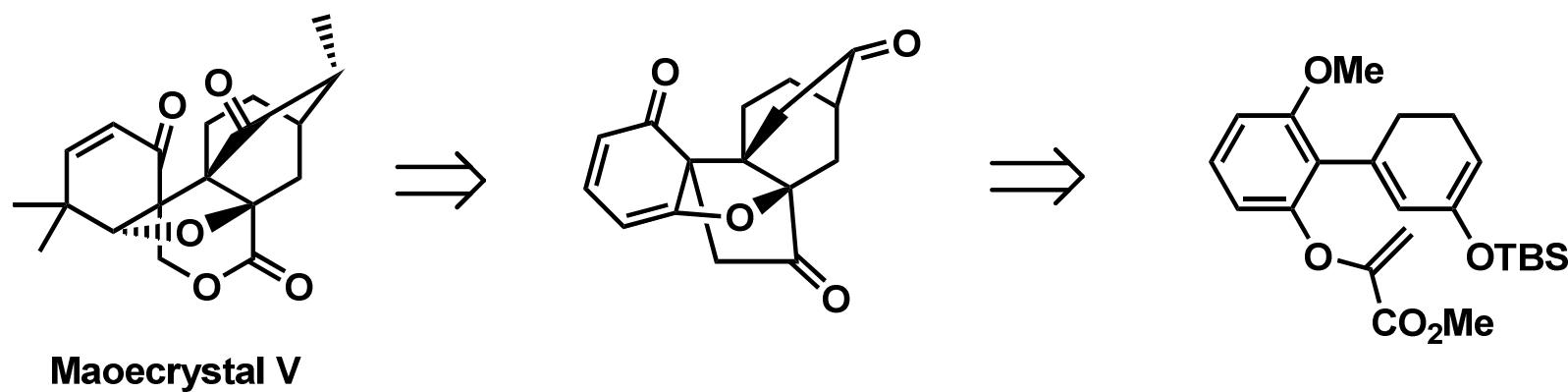
- Yang *et al.*, *Org. Lett.* 2009, 4770-73
- Baran *et al.* *Org. Lett.* 2009, 4774-76
- Danishefsky *et al.* *Tetrahedron*, 2009, 50, 6586.
- Nicolaou *et al.* *Chem. Comm.*, 2009, 46, 70-72.

Total Synthesis:

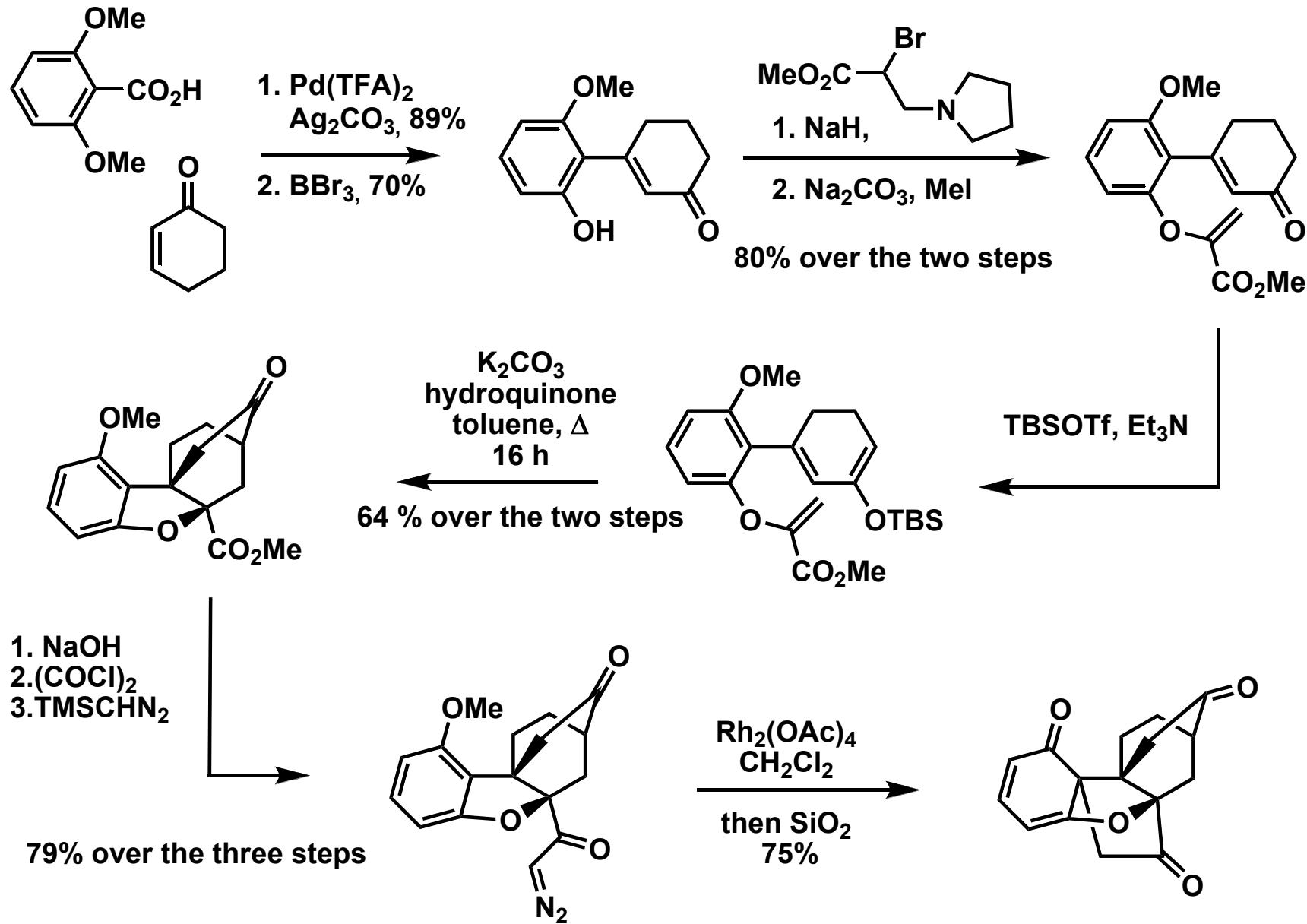
- Yang *et al.*, *J. Am. Chem. Soc. A.S.A.P.*



Nicolaou - Retrosynthesis

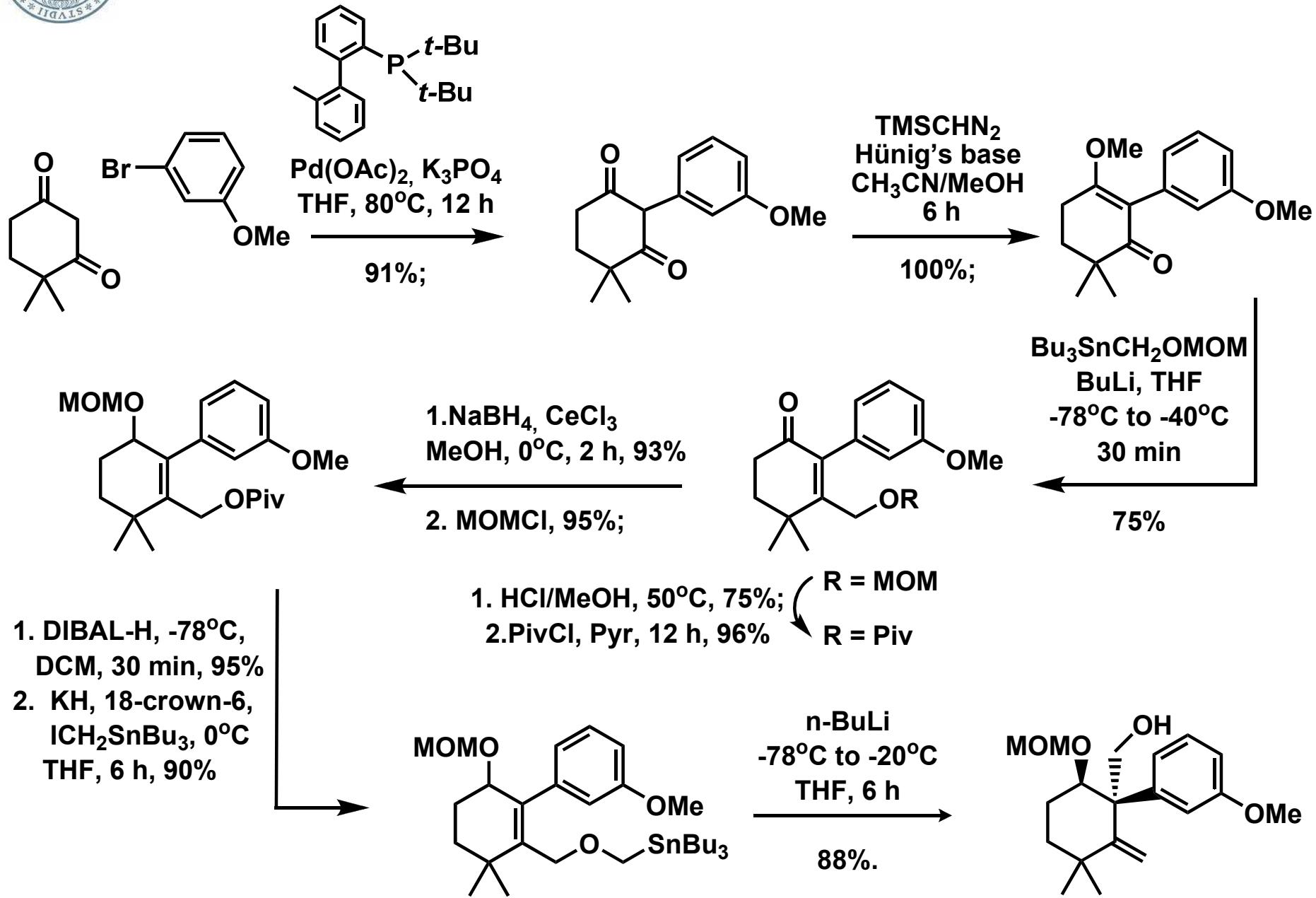


K. C. Nicolaou *et al.* *Chem. Comm.*, 2009, 46, 70-72.



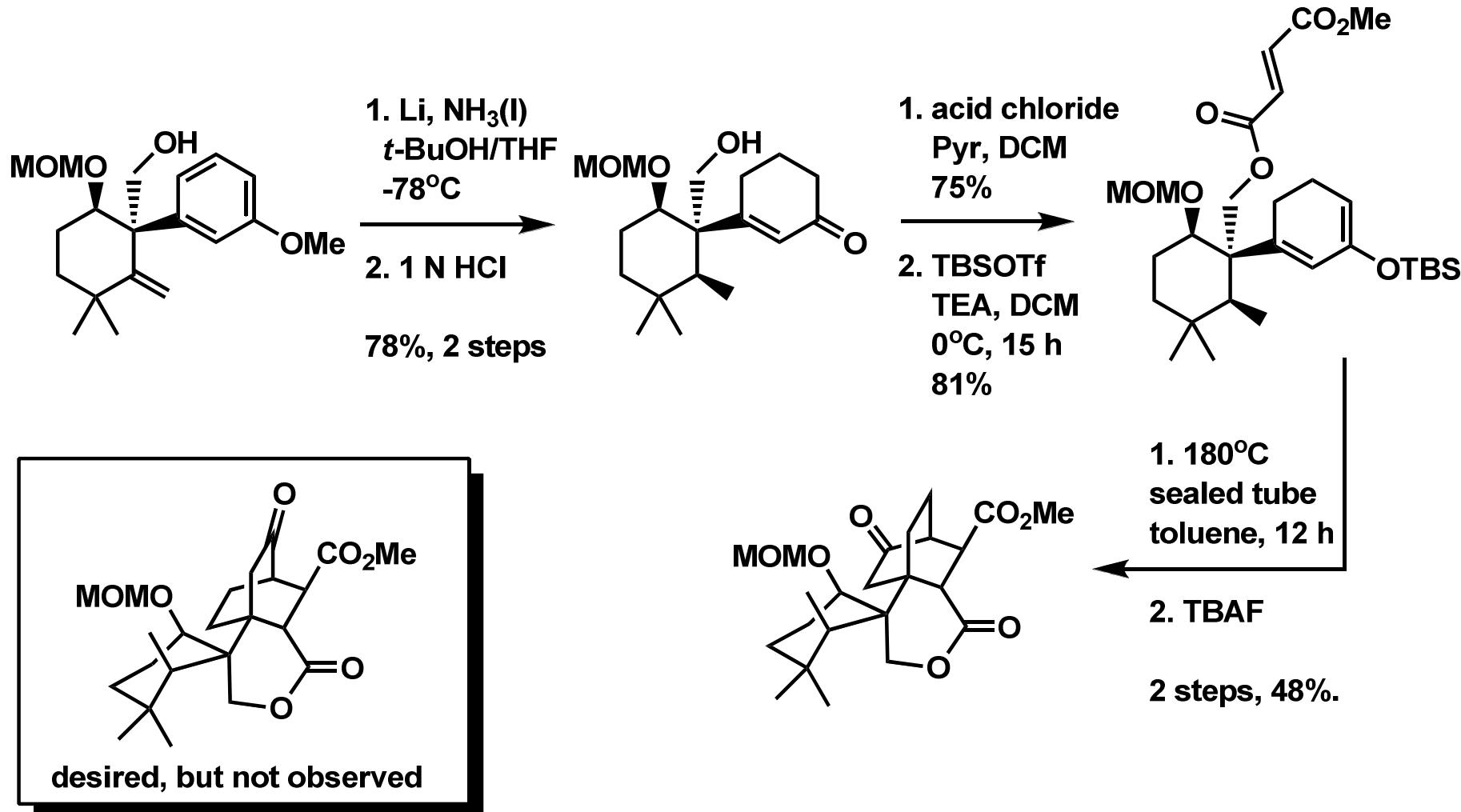


Danishefsky - Synthesis

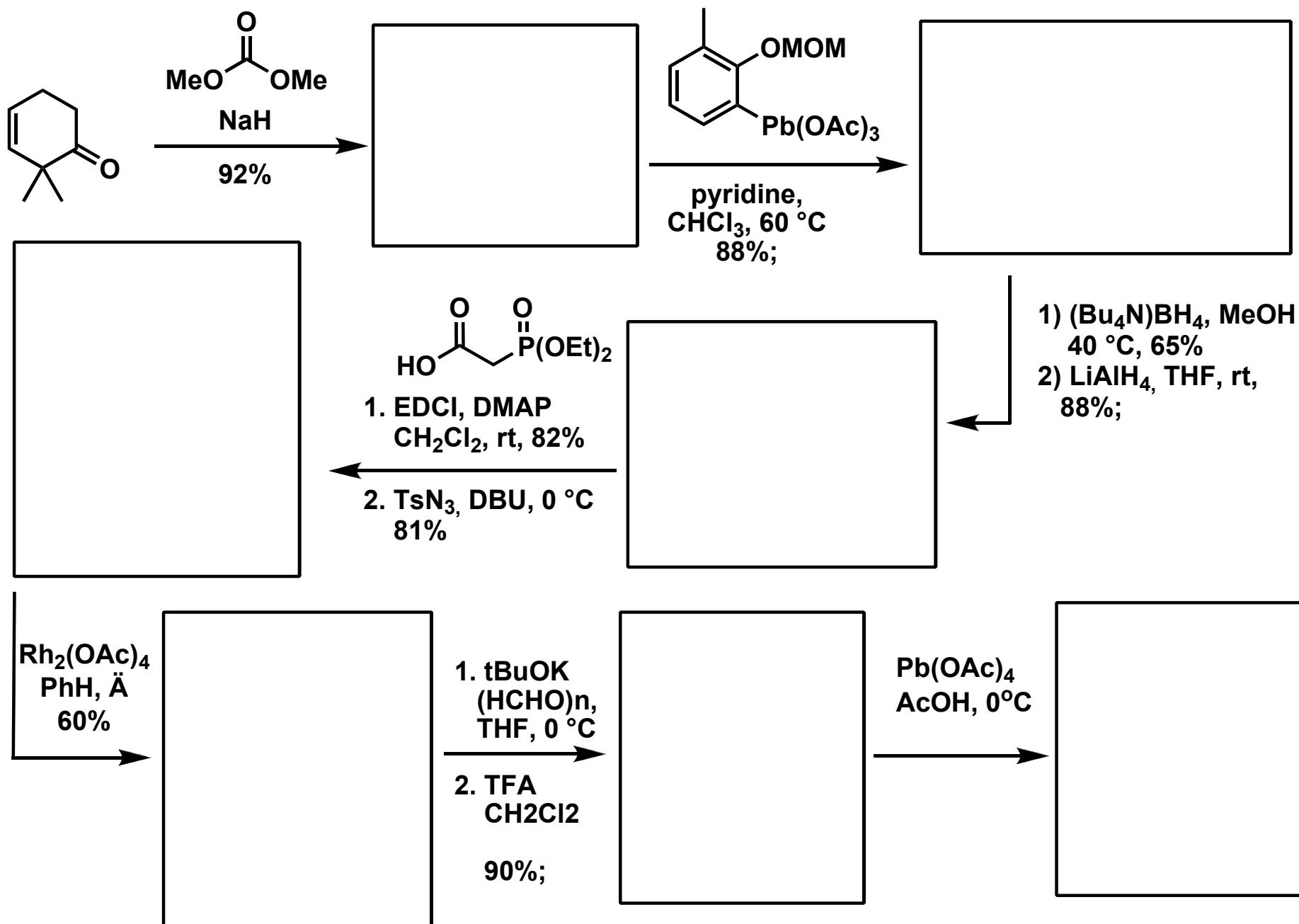


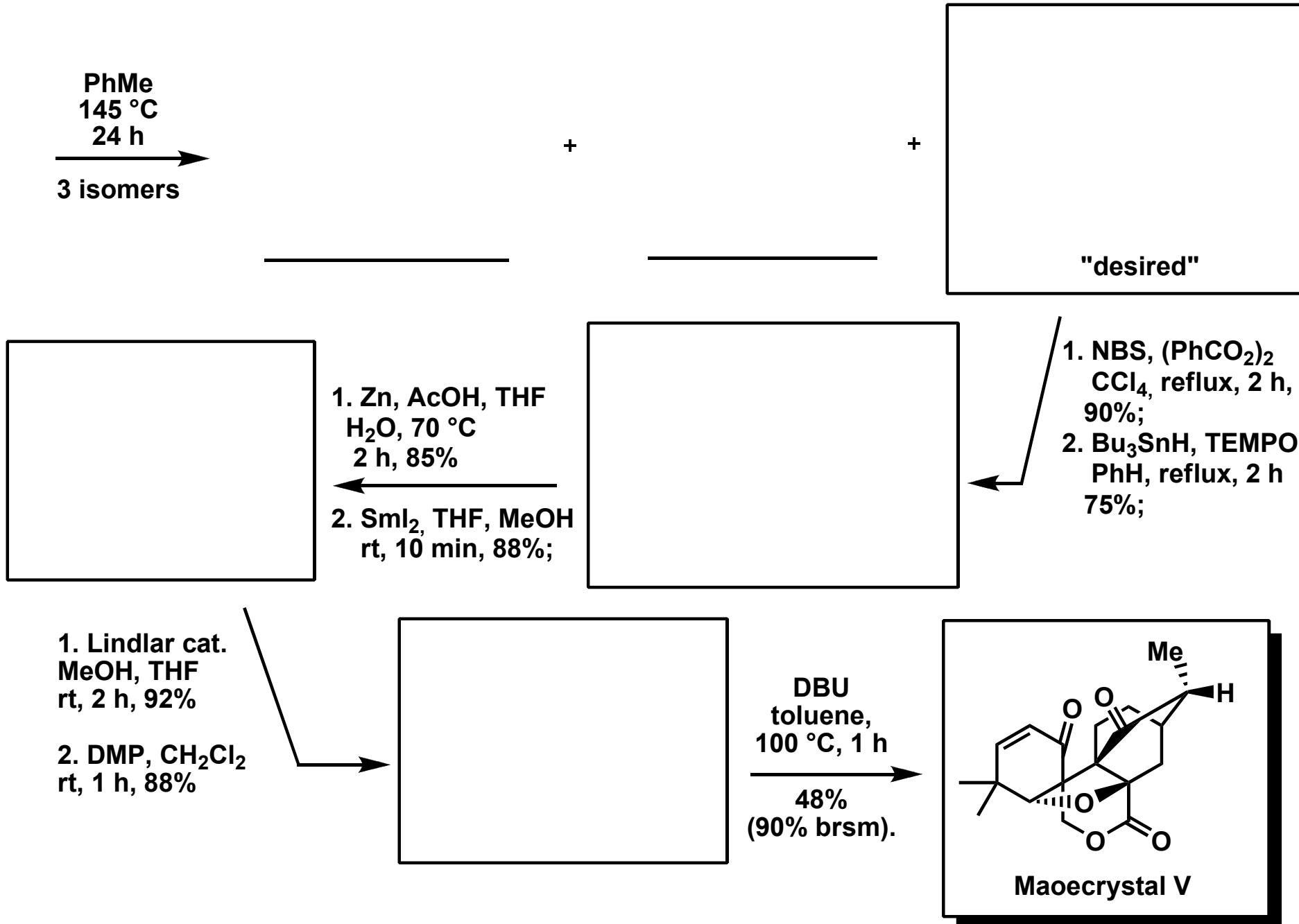


Danishefsky - Synthesis



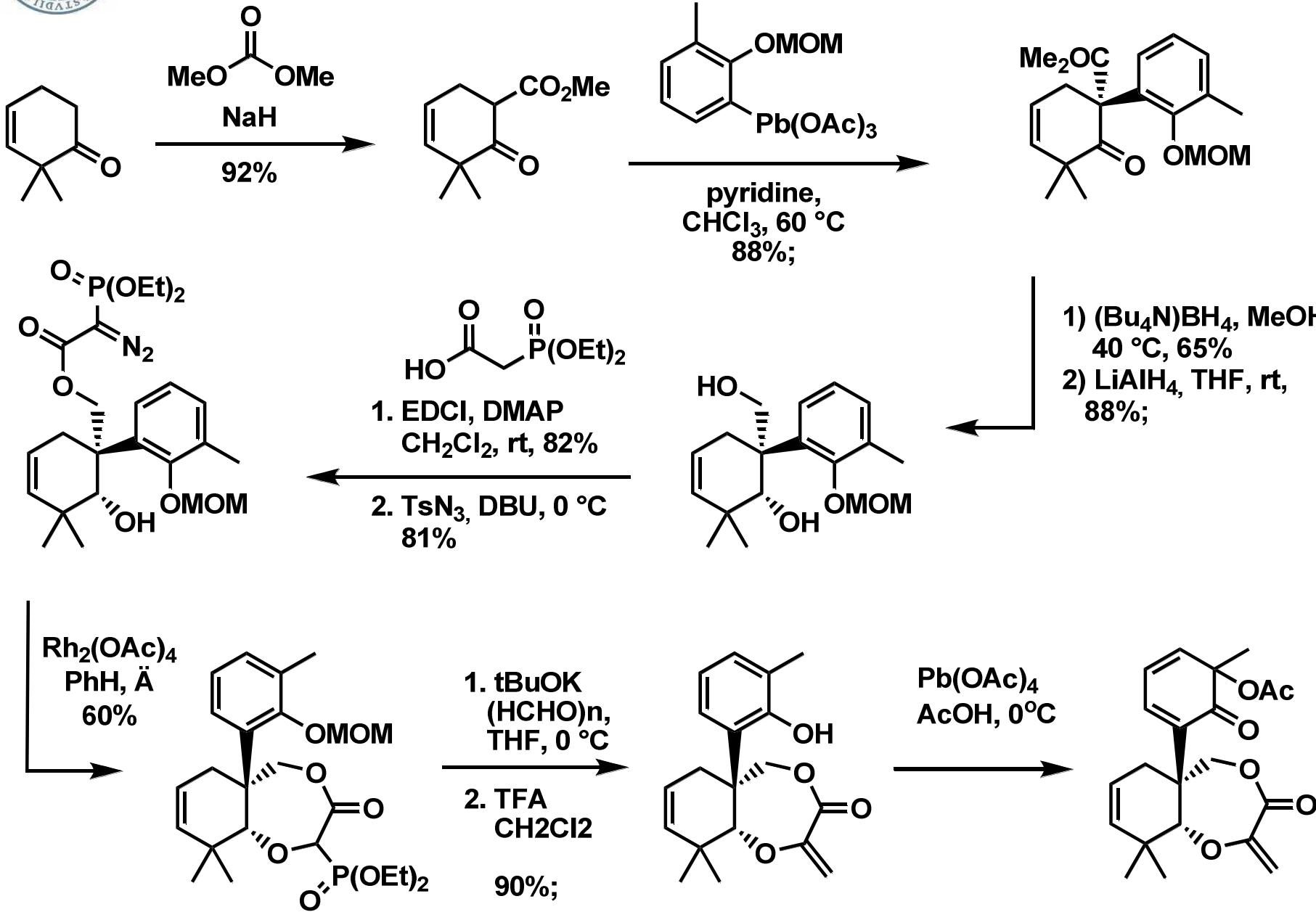
Yang et al., Total Synthesis of Maoecrystal V, J. Am. Chem. Soc. A.S.A.P.

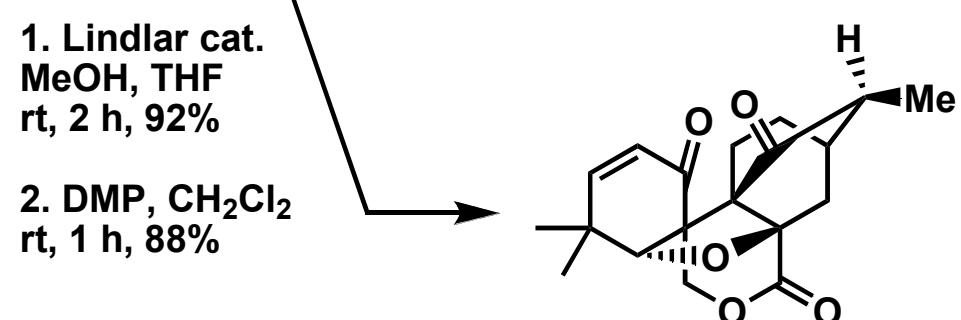
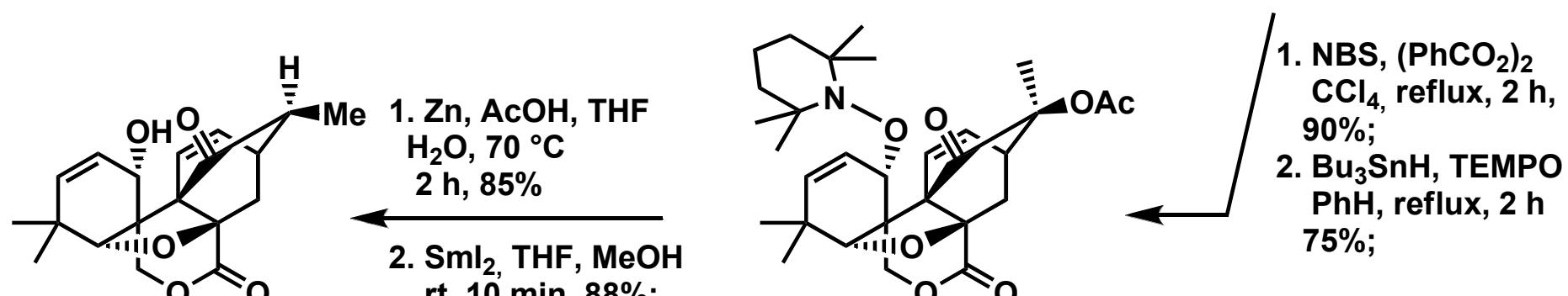
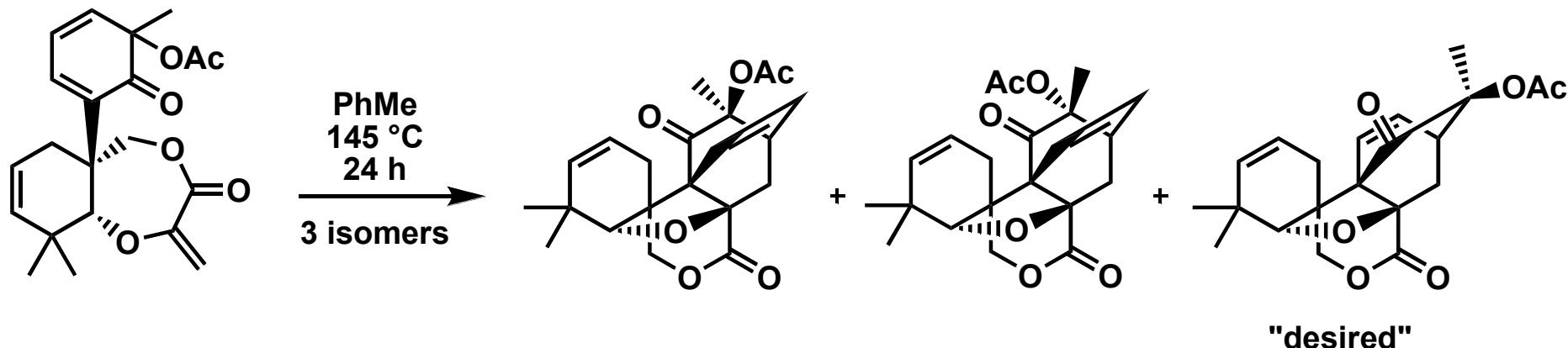






Danishefsky - Correction





DBU
toluene,
100 °C, 1 h

48%
(90% brsm).

