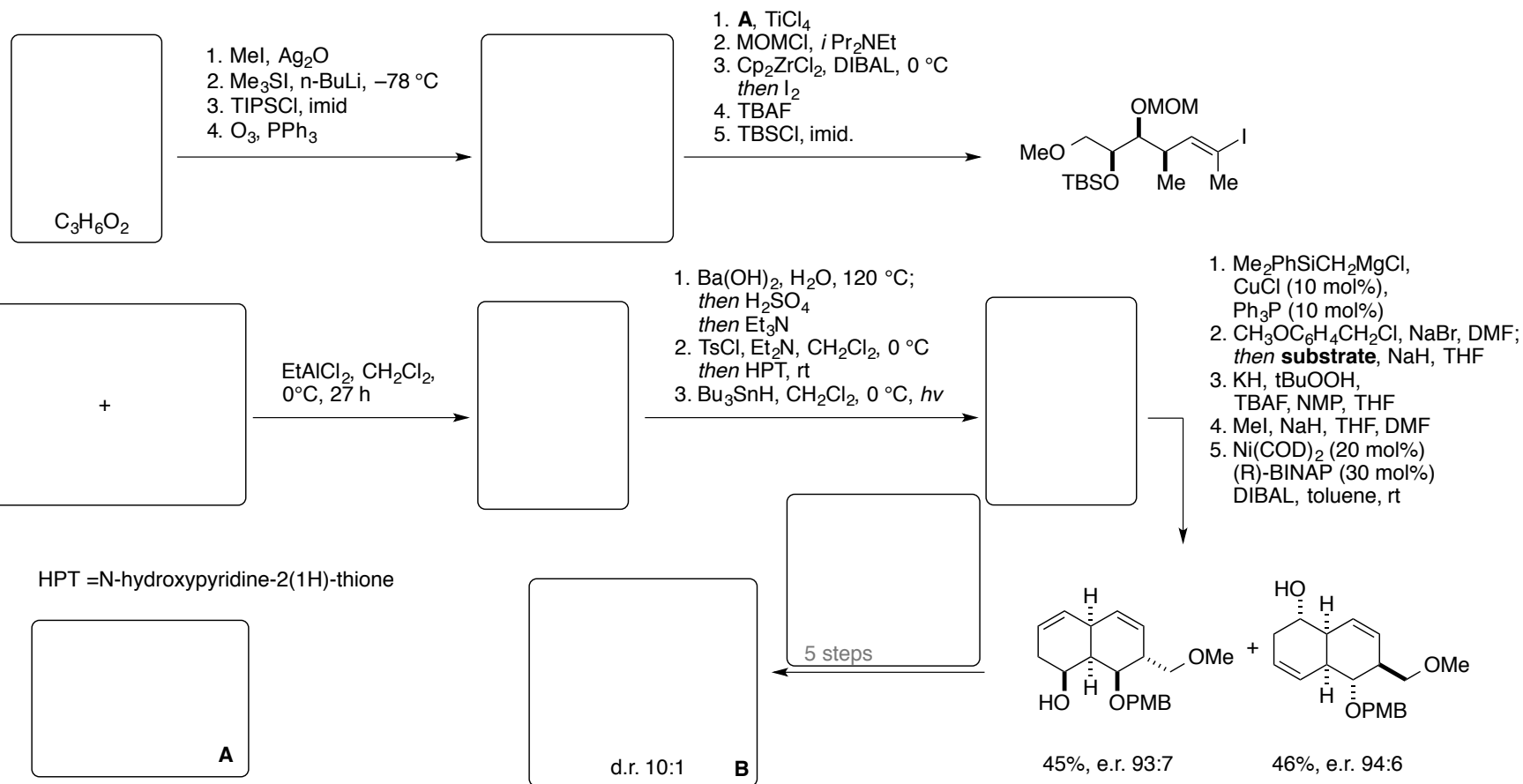
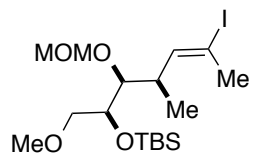


# E45: Synthesis of Branimycin<sup>[1]</sup>

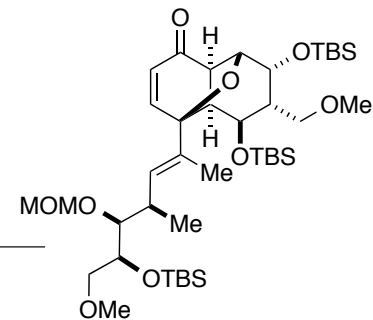


[<sup>1</sup>] S. Marchart, A. Gromov, J. Mulzer, *ACIE* **2010**, 49, 2050.



*t* BuLi; then **B**

1. TBSCl, imid.  
2. CrO<sub>3</sub>, 3,5-dimethylpyrazole



1. CH<sub>2</sub>(CO<sub>2</sub>Me)<sub>2</sub>, NaOMe  
2. PhNTf<sub>2</sub>, KHMDS  
3. Bu<sub>3</sub>SnH, Pd(PPh<sub>3</sub>)<sub>4</sub>

3 steps

1. NaBH<sub>4</sub>, CeCl<sub>3</sub>  
2. (MeO)<sub>2</sub>MeCNMe<sub>2</sub>  
3. LiEt<sub>3</sub>BH  
4. MgBr<sub>2</sub>·OEt<sub>2</sub>, Me<sub>2</sub>S

2 steps

3. 2,2'-dithiodipyridine, PPh<sub>3</sub>, AgClO<sub>4</sub>

TBAF

introduction of  
2-CH<sub>2</sub>OMe group  
//

1. TEMPO, PhI(OAc)<sub>2</sub>  
2. NaClO<sub>2</sub>, NaH<sub>2</sub>PO<sub>4</sub>·H<sub>2</sub>O,  
*t* BuOH, CH<sub>3</sub>CHC(CH<sub>3</sub>)<sub>2</sub>  
3. 2,4,6-trichlorobenzyl chloride,  
DMAP, *i* Pr<sub>2</sub>NEt

[1] S. Marchart, A. Gromov, J. Mulzer, *ACIE* **2010**,  
49, 2050.

