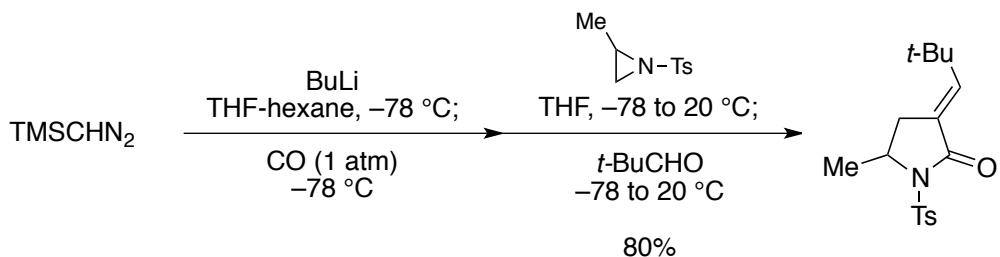


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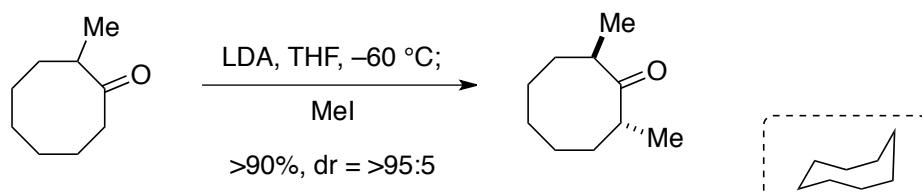
06/06/2015

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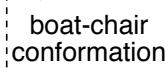


S. Murai *et al.*, *J. Org. Chem.*, **66**, 169 (2001)

2



Hint: Cyclooctane exists in a boat-chair (BC) conformation, which has minimum transannular interactions. Draw conformations of intermediates in this fashion.



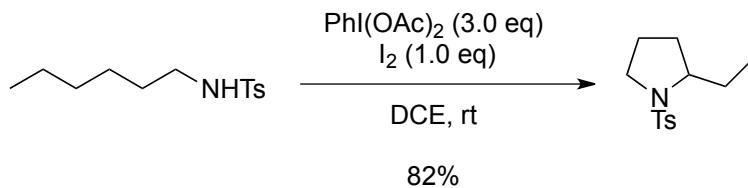
W. C. Still and I Galynker, *Tetrahedron*, **37**, 3981 (1981)

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06/10/2015

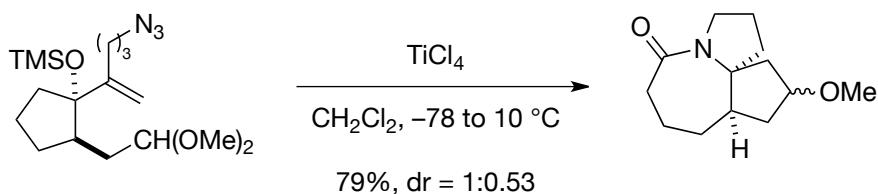
solution: K. Murakami
chair: Toma

1



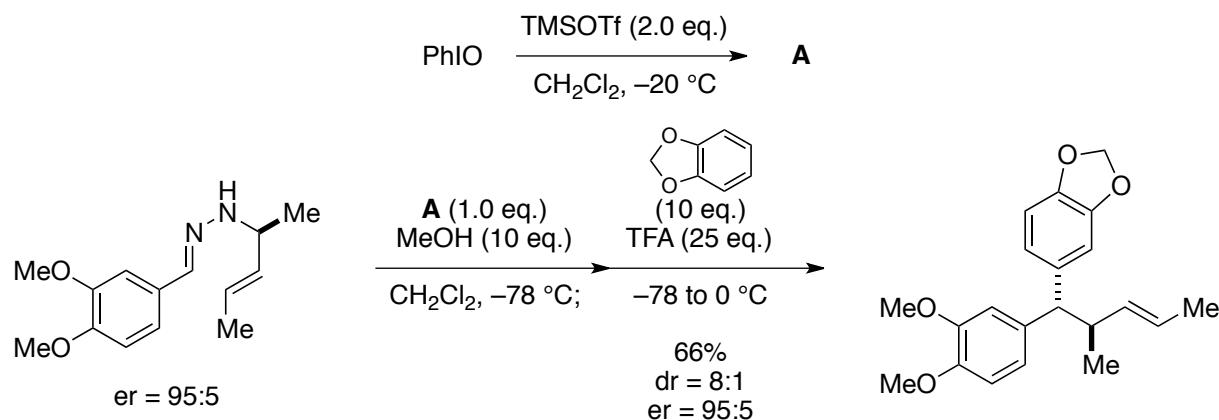
F. Renhua *et al.*, *J. Org. Chem.*, **72**, 8994 (2007)

2



F.-M. Zhang *et al.*, *Org. Lett.*, **13**, 724 (2011)

3

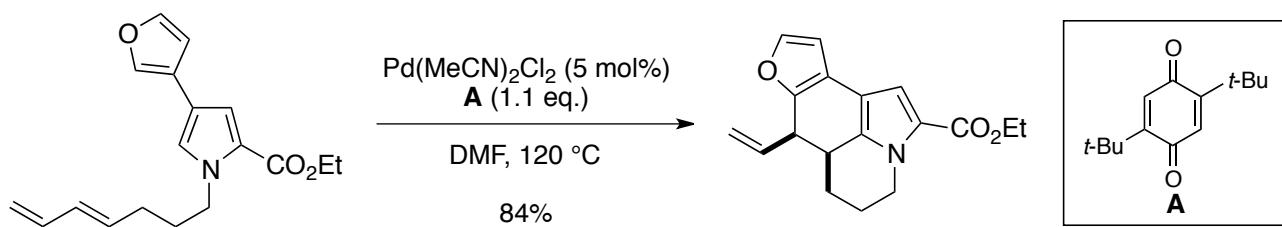


R. J. Thomson *et al.*, *Angew. Chem. Int. Ed.*, **53**, 1395 (2014)

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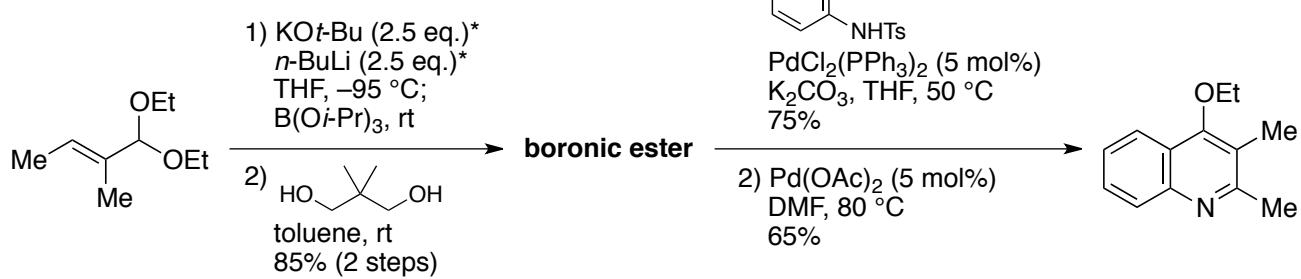
06/13/2015

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S. P. Cooper and K. I. Booker-Miburn, *Angew. Chem. Int. Ed.*, **54**, 6496 (2015)

2



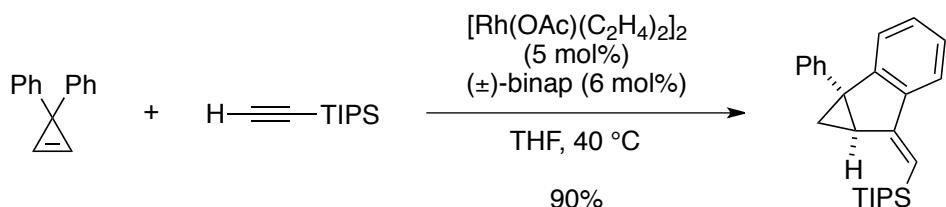
* : theoretically 2 eq.

P. Venturello *et al.*, *Eur. J. Org. Chem.*, 3451 (2006)

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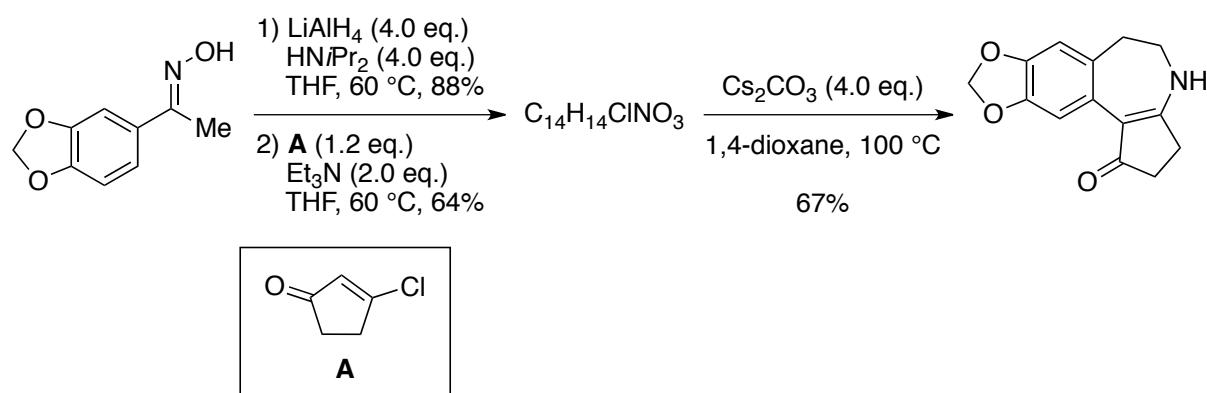
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1



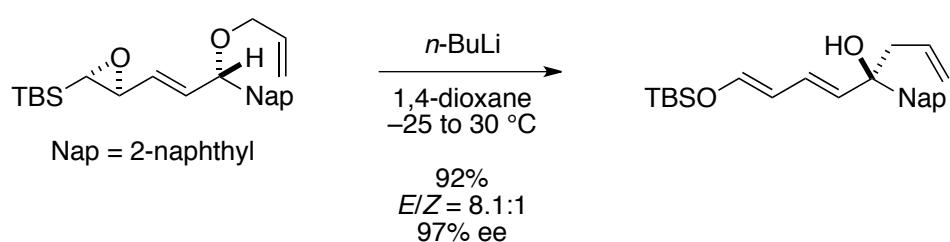
T. Nishimura *et al.*, *Org. Lett.*, **17**, 2630 (2015)

2



D. Y. Gin *et al.*, *J. Am. Chem. Soc.*, **128**, 10370 (2006)

3



K. Takeda *et al.*, *Org. Lett.*, **7**, 5913 (2005)