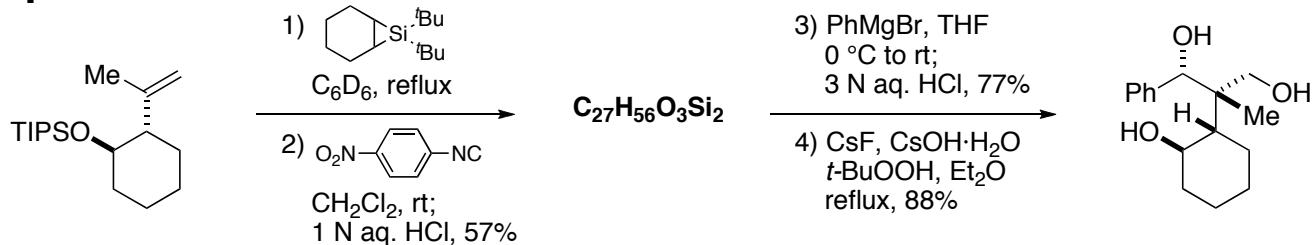


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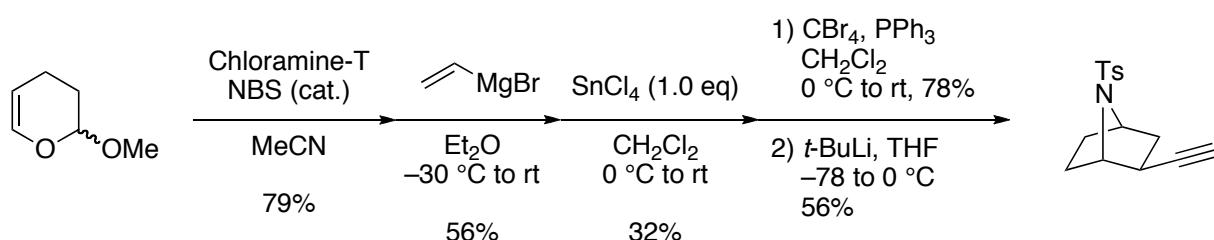
10/03/2007

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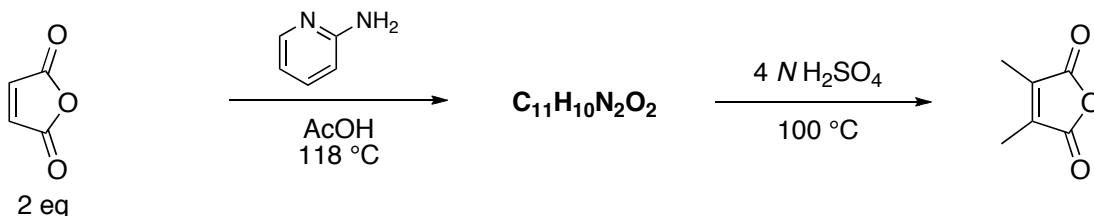
K. A. Woerpel *et al.*, *J. Am. Chem. Soc.*, **124**, 6524 (2002)

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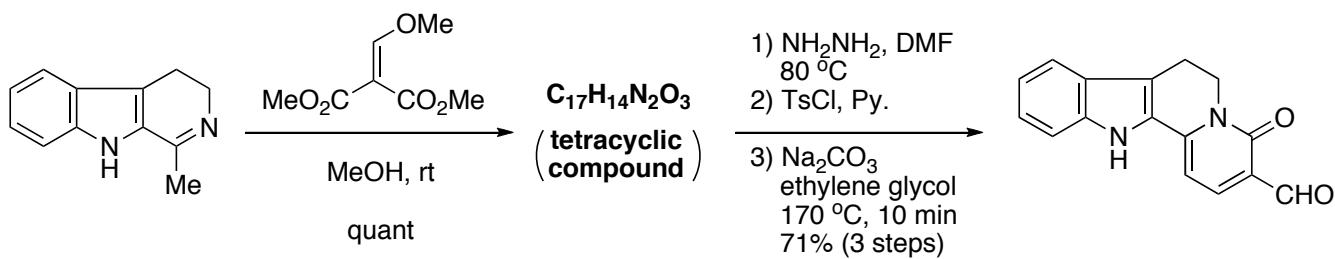
A. Armstrong *et al.*, *J. Org. Chem.*, **72**, 8019 (2007)

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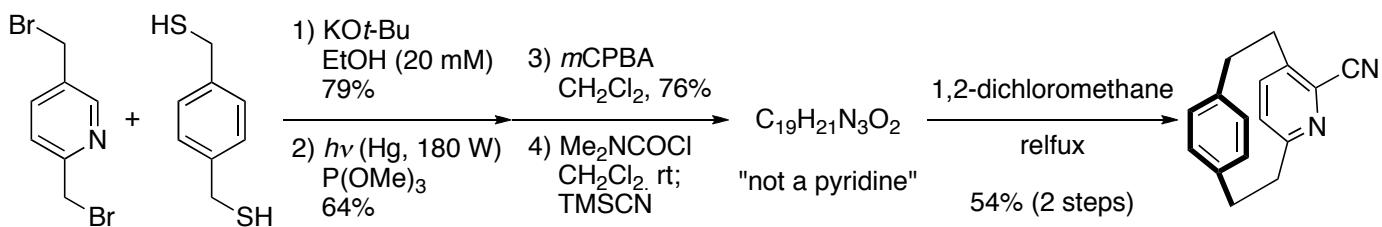
M. E. Baumann et al., *Helv. Chim. Acta.*, **67**, 1897 (1984)

4



V. S. Giri *et al.*, *Synth. Communications*, **28**, 9 (1998)

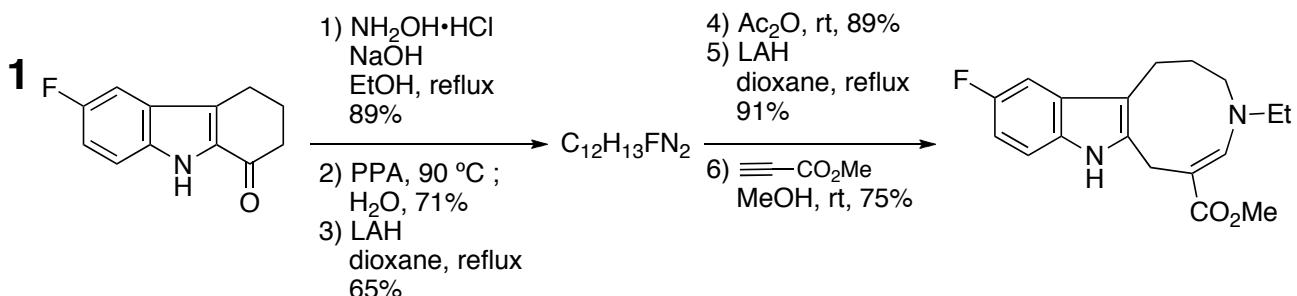
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Fürstner, A. et al., *J. Am. Chem. Soc.*, **129**, 12676 (2007)

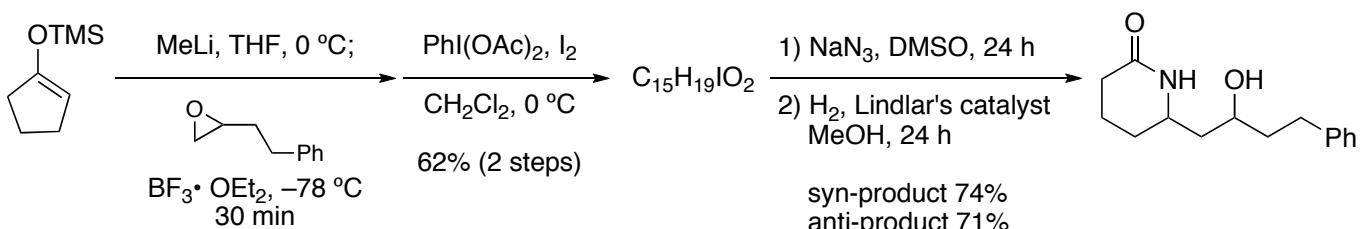
# Fukuyama Group - Group Meeting Problems

10/09/2007



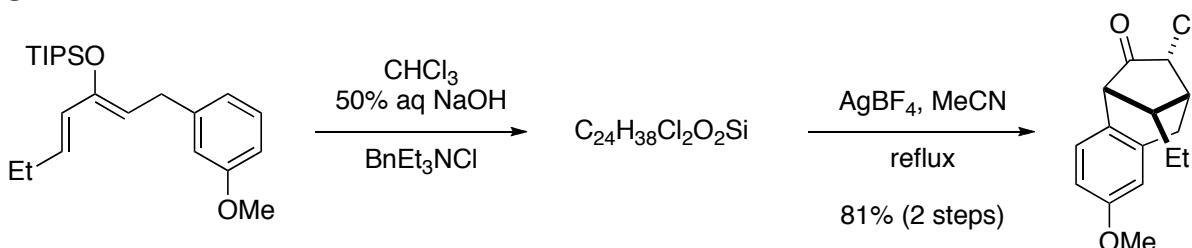
J. B. Hester, *J. Org. Chem.*, **32**, 3804 (1967)  
Voskressensky L. G. et al., *Tetrahedron*, **62**, 12392 (2006)

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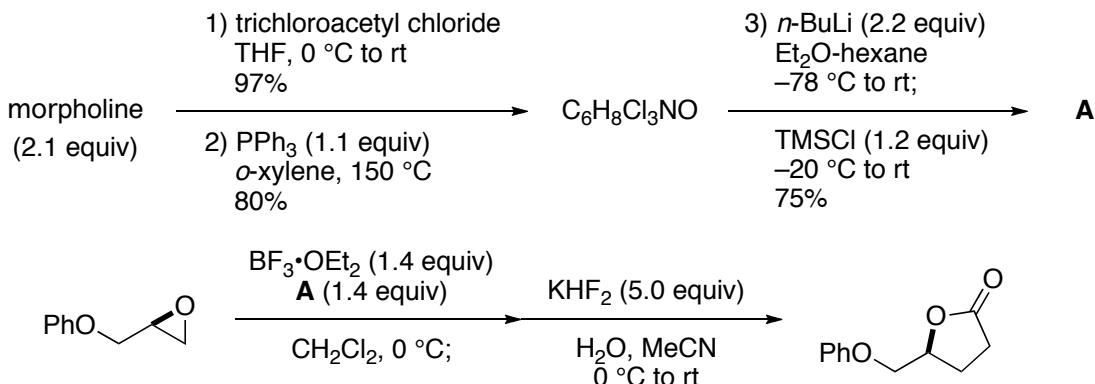
G. H. Posner et al., *Org. Lett.*, **9**, 2673 (2007)

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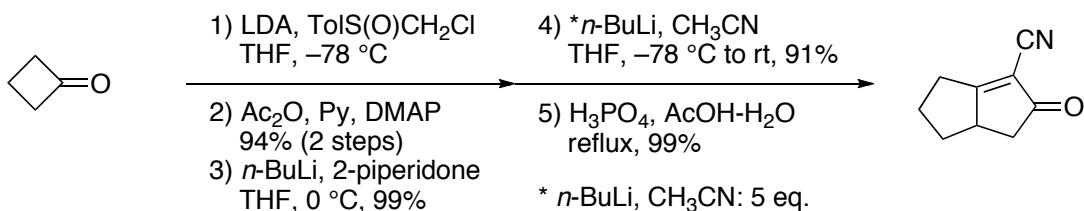
F. G. West et al., *Org. Lett.*, **9**, 3789 (2007)

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M. Movassaghi and E. N. Jacobsen, *J. Am. Chem. Soc.*, **124**, 2456 (2002)

**5**

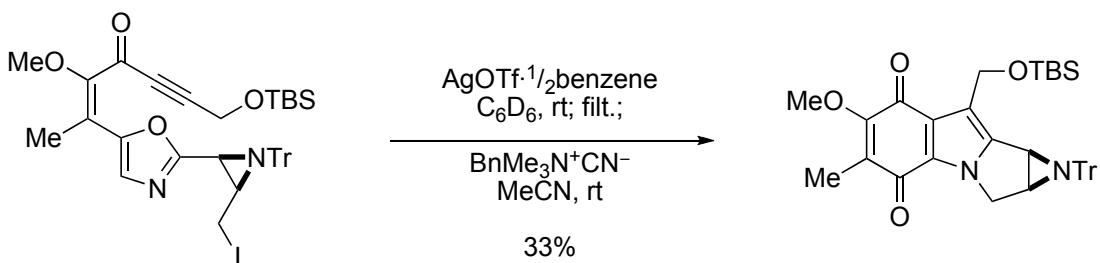


T. Satoh et al., *Tetrahedron*, **63**, 3953 (2007)

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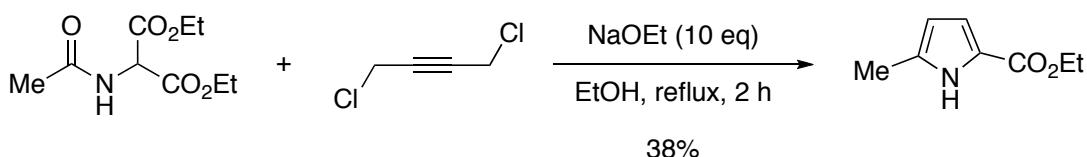
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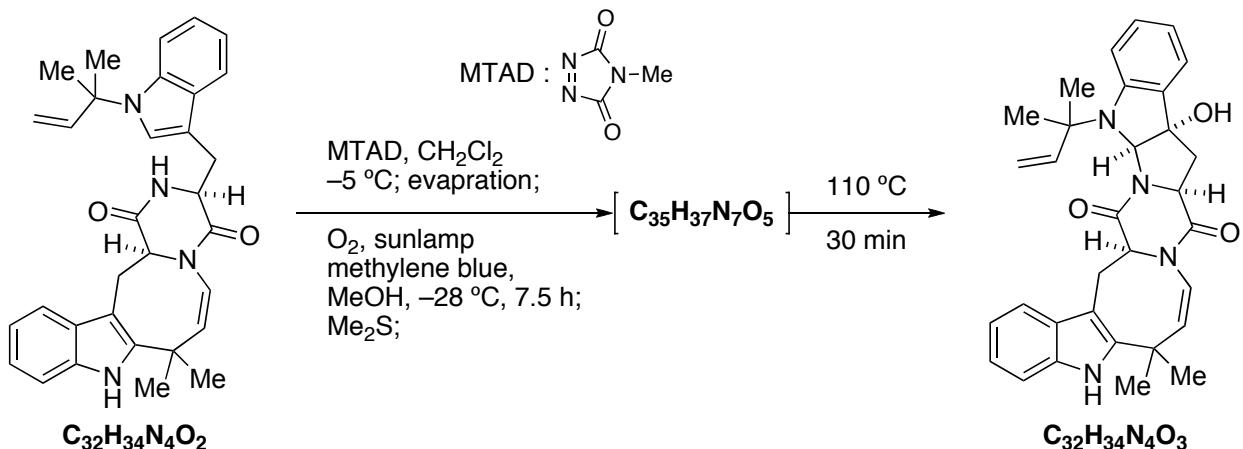
E. Vedejs *et al.*, *J. Org. Chem.*, **72**, 8506 (2007)

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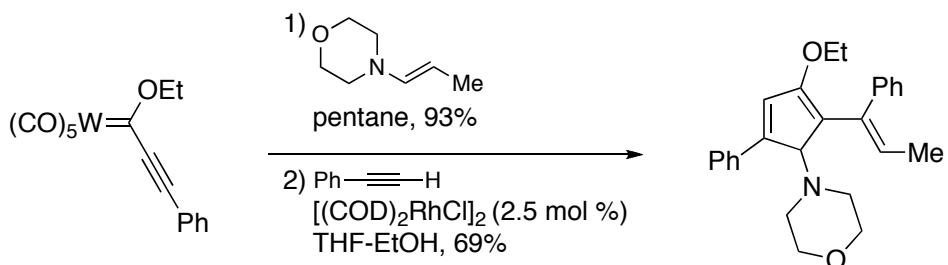
T. P. Curran *et al.*, *J. Org. Chem.*, **61**, 9068 (1996)

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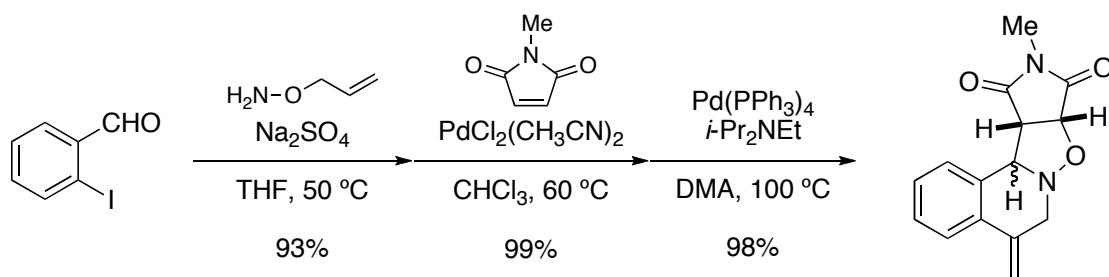
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E. J. Corey *et al.*, *J. Am. Chem. Soc.*, **125**, 5628 (2003)



5

R. Aumann *et al.*, *Eur. J. Org. Chem.*, 2545 (1999)

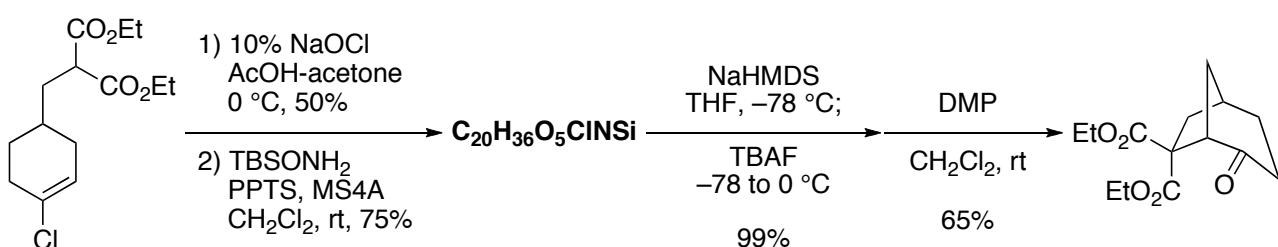


M. Sasaki *et al.*, *Tetrahedron Lett.*, **48**, 4255 (2007)

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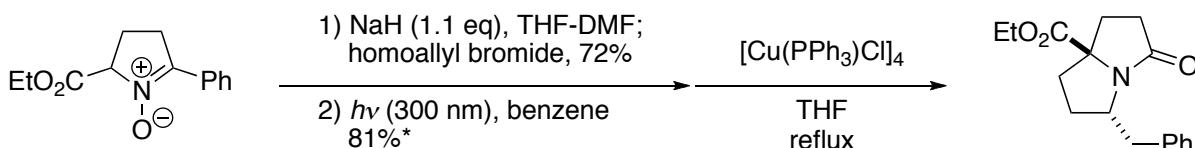
10/24/2007

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S. M. Weinreb *et al.*, *J. Am. Chem. Soc.*, **129**, 10342 (2007)

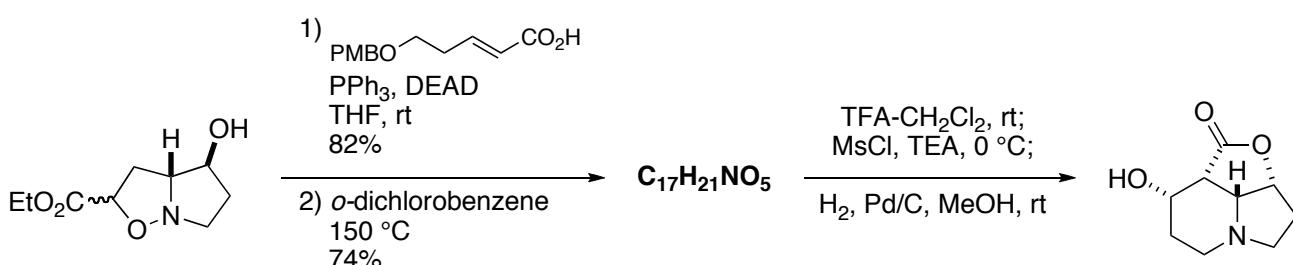
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\* 1.7:1 mixture of two diastereomers  
(The major diastereomer was used in the next step.)

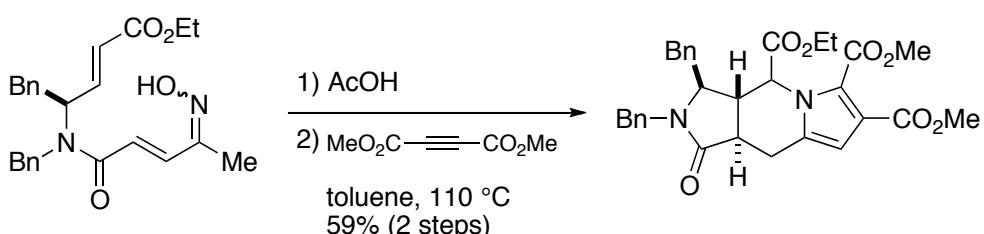
D. StC. Black *et al.*, *Synthesis*, 1981 (2006)

3



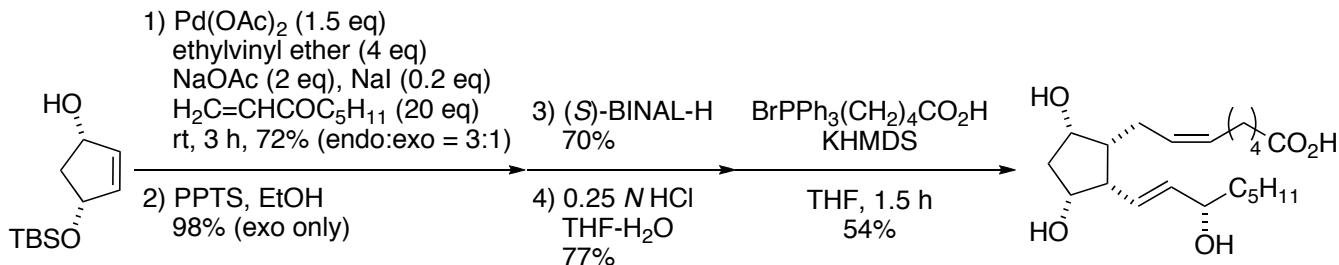
Brandi *et al.*, *Org. Lett.*, **2**, 2475 (2000)

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V. M. William *et al.*, *J. Org. Chem.*, **72**, 3097 (2007)

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R. C. Larock *et al.*, *J. Am. Chem. Soc.*, **113**, 7815 (1991)