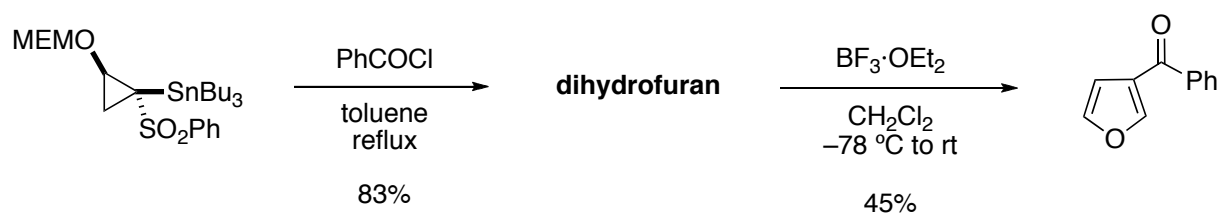


Fukuyama Group - Group Meeting Problems

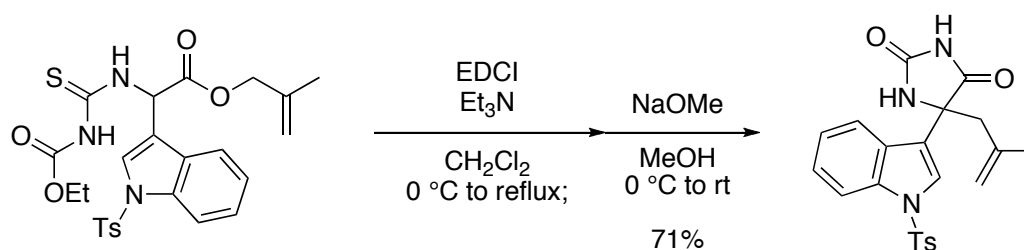
06/03/2009

1



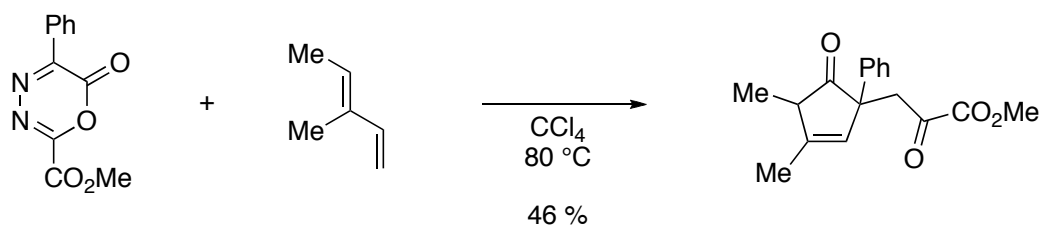
M. Pohmakotr *et al.*, *Tetrahedron Lett.*, **37**, 4585 (1996)

2



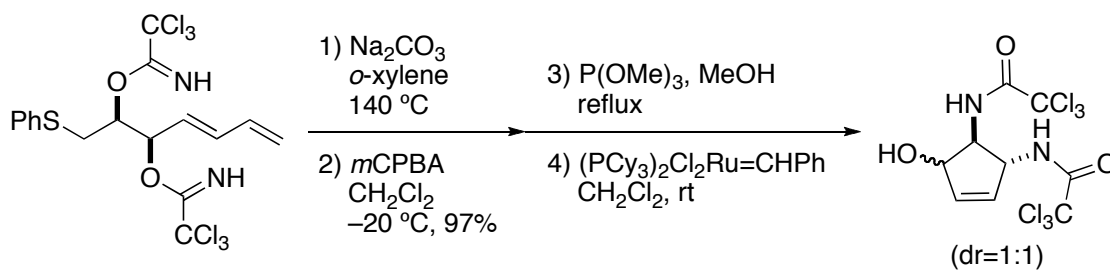
J. J. Tepe *et al.*, *J. Org. Chem.*, **74**, 3406 (2009)

3



J. Hegmann *et al.*, *Angew. Chem. Int. Ed. Engl.* **27**, 931 (1988)

4

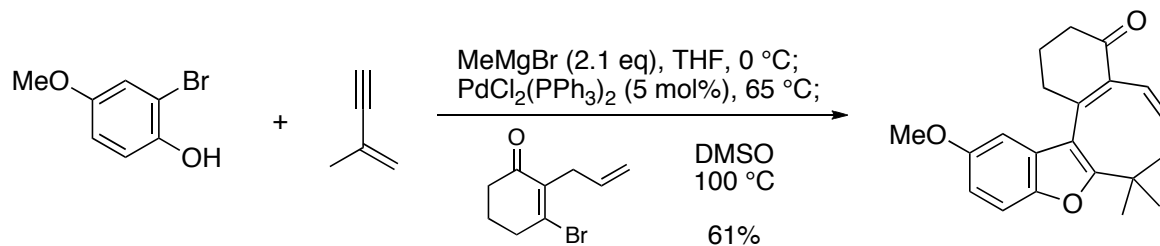


N. Chida *et al.*, *Org. Lett.*, **11**, 2687 (2009)

Fukuyama Group - Group Meeting Problems

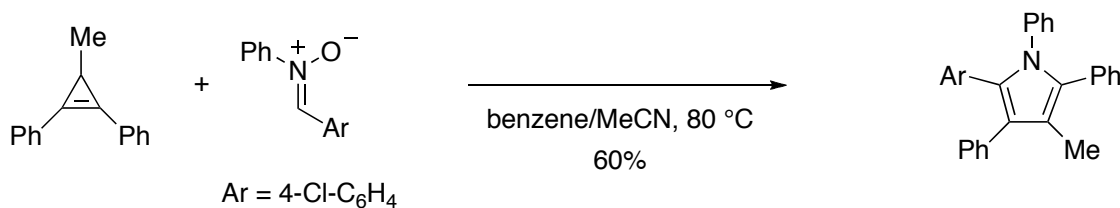
06/09/2009

1



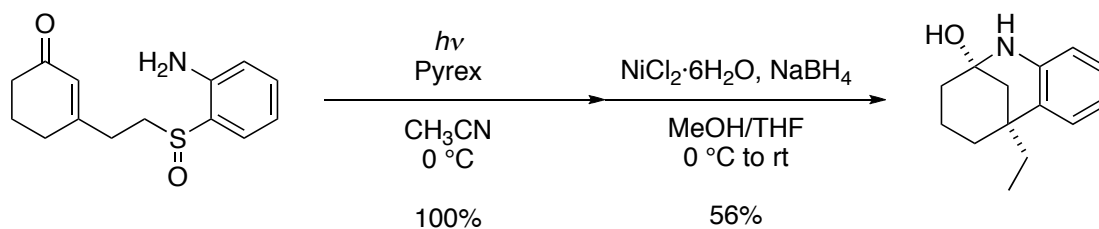
B. L. Flynn *et al.*, *Org. Lett.*, **6**, 457 (2004)

2



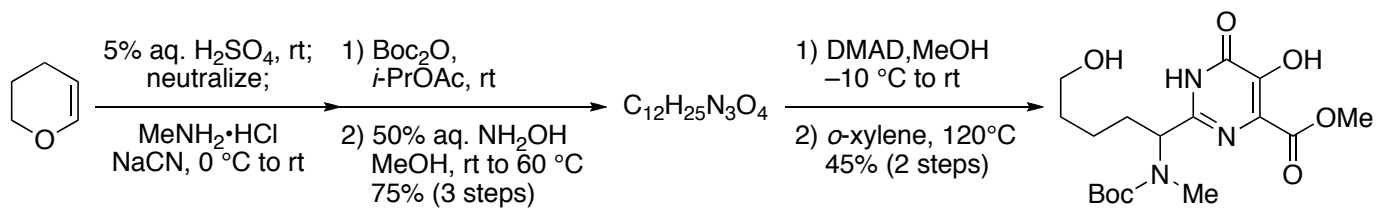
A. P. Molchanov *et al.*, *J. Org. Chem.*, **73**, 2396 (2008)

3



J. D. Winkler *et al.*, *J. Am. Chem. Soc.*, **128**, 9040 (2006)

4

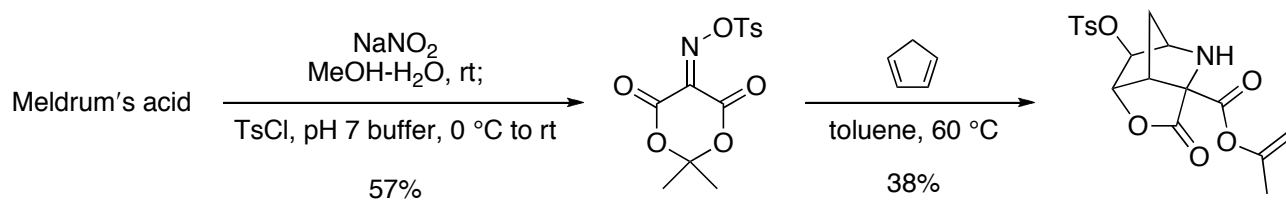


Y. L. Zhong *et al.*, *Org. Process Res. Dev.*, **12**, 1245 (2008)

Fukuyama Group - Group Meeting Problems

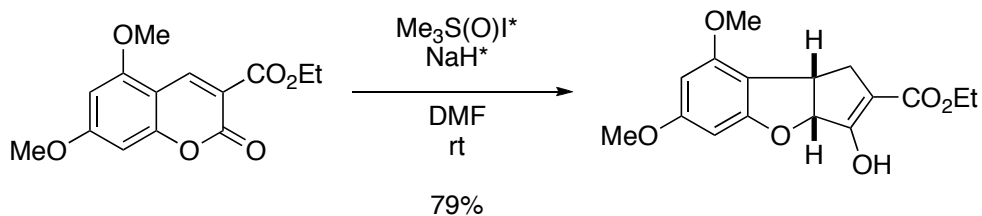
06/20/2009

1



R. L. Danheiser *et al.*, *J. Org. Chem.*, **63**, 7840 (1998)

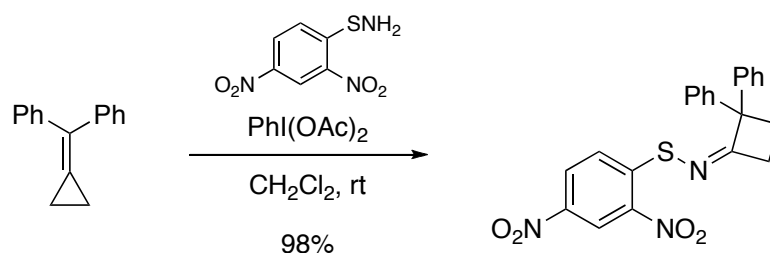
2



*theoretically 2 eq.

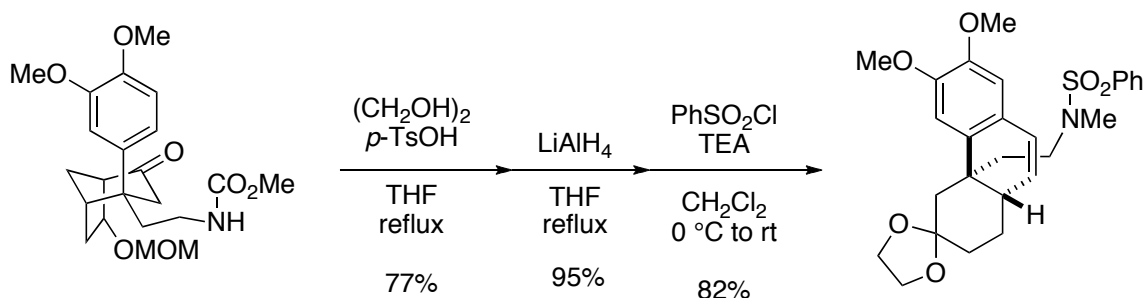
S. Ohta *et al.*, *Org. Lett.*, **3**, 1359 (2001)

3



M. Shi *et al.*, *Tetrahedron*, **63**, 11016 (2007)

4

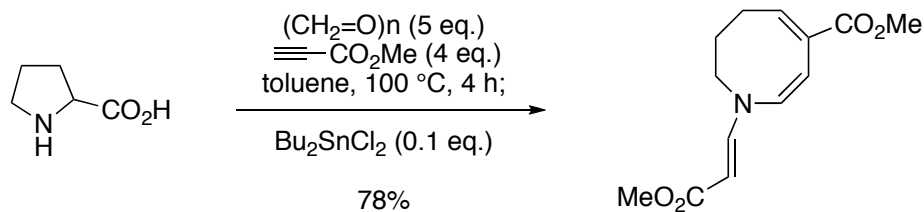


K. Ogasawara *et al.*, *Org. Lett.*, **4**, 4515 (2002)

Fukuyama Group - Group Meeting Problems

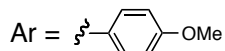
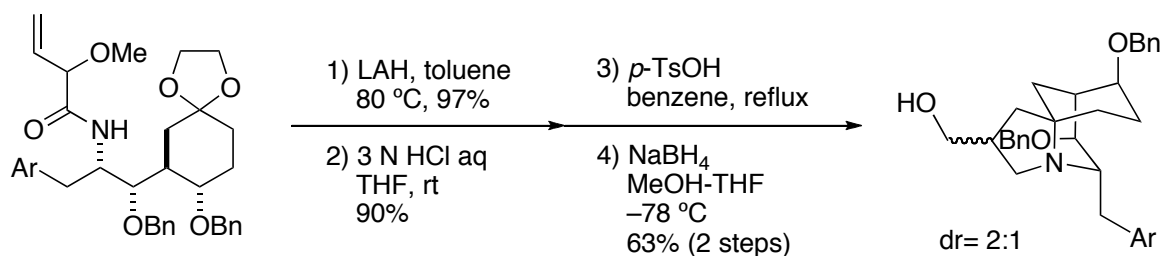
06/27/2009

1



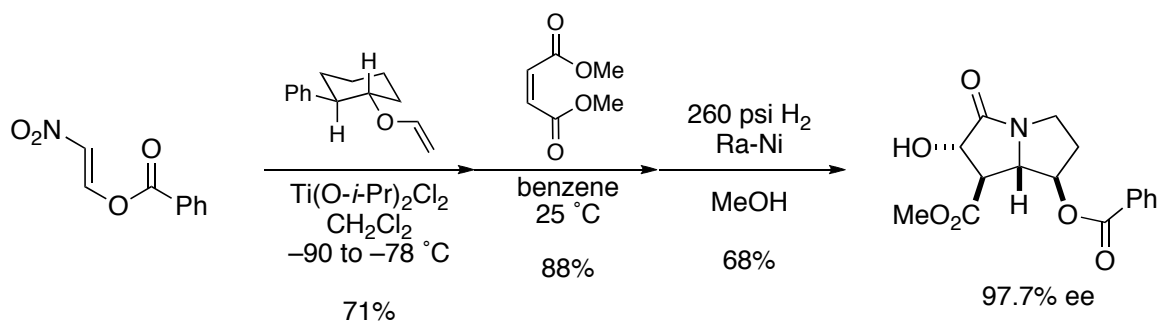
H. Ardrill *et al.*, *Tetrahedron.*, **50**, 5067 (1994)

2



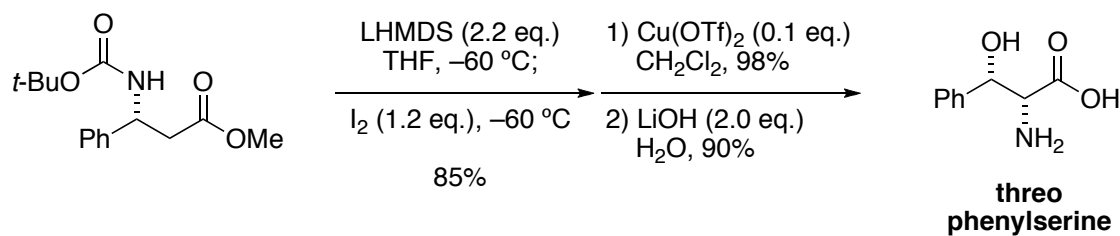
K. M. Brummond *et al.*, *J. Org. Chem.*, **70**, 907 (2005)

3



S. E. Denmark *et al.*, *J. Org. Chem.*, **59**, 5672 (1994)

4



A. Vecchione *et al.*, *Org. Lett.*, **1**, 2153 (1999)