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Diastereospecific Intramolecular Ullmann Couplings: Unique Chiral Auxiliary for the Preparation of 3,3'-Disubstituted MeO-BIPHEP Derivatives

pp 1483 – 1485.

$R^1 = H, OMe, OtBu, Ph, Mesityl$

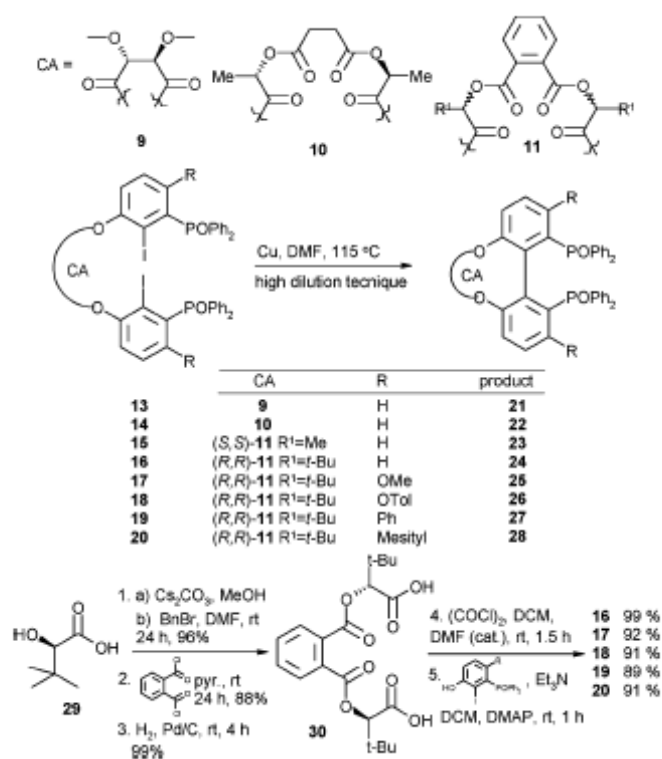
Schemes:

1 R=H
2 R=OMe
3 R=Otoly
4 R=Ph
5 R=mesityl

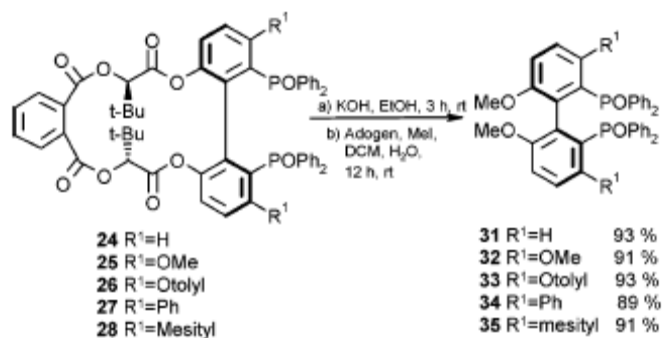
6 R=OMe, OiPr,
OPiv, OBn

7 Y=H, Z=Me, Ph or
CH₂OMe, X=Br, I
8 Y+Z= O, X=I

Scheme 2



Scheme 3



Figures:

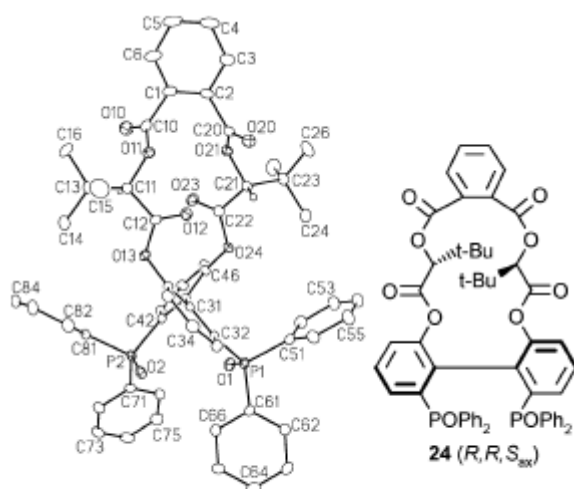


Figure 1. X-ray crystal structure of (*R,R,S_{xx}*)-**24**. The hydrogen atoms have been removed for clarity.

Tables:

Table 1. Products Ratios from the Intramolecular UC of Compounds **9–17**

sm	deiodized sm/UC product (config)	UC product (% isolated yield)	% de
(<i>R,R</i>)- 13	95:5 (nd)	21 (nd)	
(<i>S,S</i>)- 14	23:77 (<i>R_{xx}</i>)	22 (69)	71
(<i>S,S</i>)- 15	10:90 (<i>R_{xx}</i>)	23 (81)	95
(<i>R,R</i>)- 16	9:91 (<i>S_{xx}</i>)	24 (88)	> 99
(<i>R,R</i>)- 17	4:96 (<i>S_{xx}</i>)	25 (91)	> 99
(<i>R,R</i>)- 18	17:83 (<i>S_{xx}</i>)	26 (79)	> 99
(<i>R,R</i>)- 19	6:94 (<i>S_{xx}</i>)	27 (84)	> 99
(<i>R,R</i>)- 20	21:79 (<i>S_{xx}</i>)	28 (66)	> 99

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