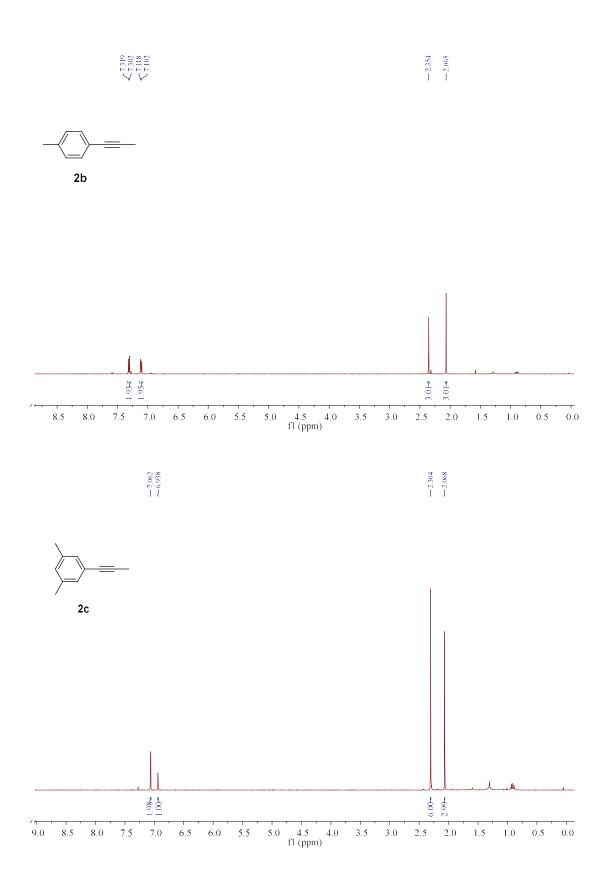# Supporting Information for:

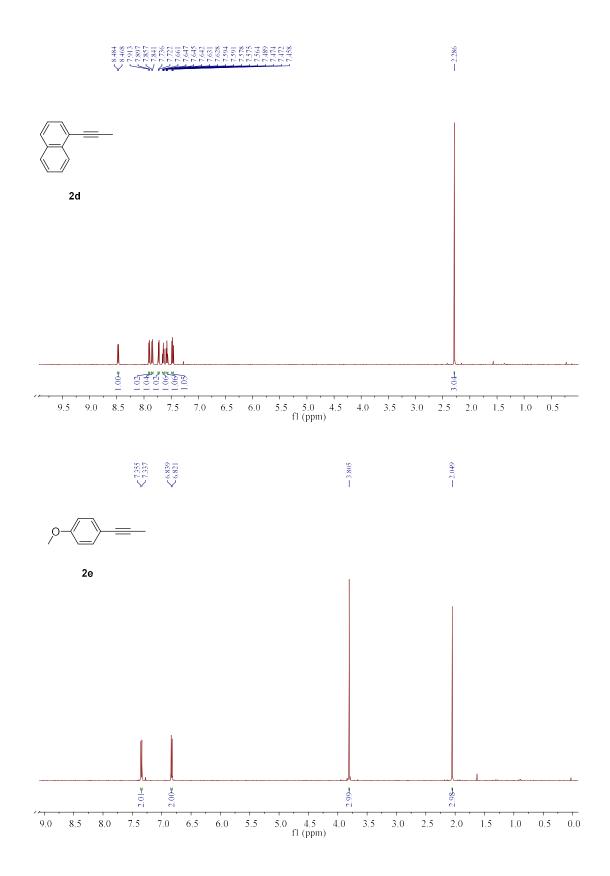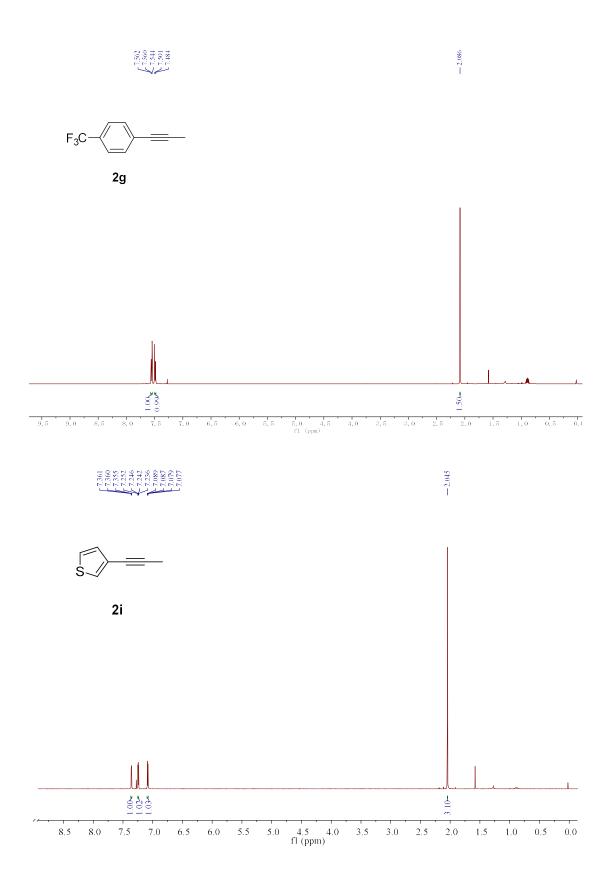# Palladium-Catalyzed Allylation of Aminophenols with Alkynes to Construct C-N bonds

Chuan-jun Lu,* Xin Yu, Dong-Kai Chen, Hong Wang,* Qing-Bao Song, Jian-Rong Gao

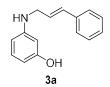*College of Chemical Engineering, Zhejiang University of Technology, Chaowang Road 18#, Hangzhou 310014, China.*

^{1}H and ^{13}C NMR spectra

2b

7.319
7.302
7.118
7.102

2.354
2.065

1.93
1.95

3.01
3.01

8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
f1 (ppm)

2c

7.062
6.938

2.304
2.068

1.98
1.00

6.00
2.99

9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
f1 (ppm)

2d

2e

2g

Peaks: 7.562, 7.560, 7.544, 7.501, 7.484, 2.086

Integrations: 1.00, 0.99, 1.50

2i

Peaks: 7.361, 7.360, 7.355, 7.252, 7.246, 7.242, 7.236, 7.089, 7.087, 7.079, 7.077, 2.045

Integrations: 1.00, 1.02, 1.03, 3.10

1H NMR

7.292, 7.273, 7.244, 7.226, 7.207, 7.168, 7.149, 7.131, 6.967, 6.947, 6.927, 6.542, 6.502, 6.255, 6.240, 6.226, 6.215, 6.200, 6.187, 6.170, 6.165, 6.131, 6.125, 6.111, 6.105, 6.083, 6.077, 6.071

4.328

3.819, 3.804

3a

13C NMR

156.763

149.605

136.802, 131.640, 130.244, 128.587, 127.574, 126.783, 126.358

106.214, 104.757, 99.974

77.353, 77.036, 76.719

46.206

3a

3c

1H NMR peaks (ppm): 7.426, 7.419, 7.415, 7.411, 7.404, 7.401, 7.399, 7.395, 7.360, 7.345, 7.342, 7.329, 7.284, 7.276, 7.269, 7.255, 6.660, 6.628, 6.398, 6.386, 6.375, 6.366, 6.355, 6.343, 6.226, 6.221, 6.188, 6.183, 6.175, 6.168, 3.950, 3.946, 3.938, 3.935, 2.118, 2.117

Integration: 2.06, 2.09, 1.15, 0.99, 0.99, 1.00, 1.02, 0.98, 0.98, 2.02, 2.99

13C NMR peaks (ppm): 155.189, 147.040, 136.774, 131.727, 130.620, 128.561, 127.565, 126.752, 126.356, 114.366, 103.525, 98.091, 77.280, 77.027, 76.773, 46.149, 16.674

3c

7.417
7.414
7.410
7.403
7.400
7.398
7.362
7.348
7.341
7.335
7.332
7.285
7.280
7.276
7.269
7.260
6.759
6.658
6.655
6.652
6.627
6.625
6.620
6.405
6.400
6.384
6.373
6.361
6.352
6.341
6.329
6.221
6.216
6.204
6.199

3.903
3.900
3.891
3.888
3.833

HN

OH

O

3d

1.96
1.98
1.14

0.98
0.98
0.96
1.03
1.00

2.01
2.98

9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0 -0.5
f1 (ppm)

146.565
143.258
139.277
136.841
131.360
128.487
127.409
127.178
126.267
112.477
104.155
101.070
77.277 CDCl3
77.023 CDCl3
76.769 CDCl3
56.751
46.907

HN

OH

O

3d

160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0
f1 (ppm)

8

3e

3e

3f

3f

3h

8.396, 7.412, 7.409, 7.394, 7.329, 7.314, 7.298, 7.235, 7.232, 7.229, 7.218, 7.203, 6.597, 6.565, 6.534, 6.528, 6.494, 6.488, 6.477, 6.471, 6.434, 6.417, 6.406, 6.395, 6.374, 6.363 — 4.555 — 3.838, 3.830 — 2.095

f1 (ppm)

148.307 — 139.239, 136.901 — 129.775, 129.033, 128.582, 127.190, 126.073, 123.695 — 117.462, 112.718, 111.068 — 46.045, 40.020, 39.852, 39.685, 39.519, 39.351, 39.184, 39.018 — 17.826

3h

f1 (ppm)

3i

3i

3j

3j

14

3k

3k

3l

3l

3m

3m

3n

3n

3o

3o

3p

3p

3q

3q

8.919

7.501 7.495 7.491 7.485 7.389 7.385 7.319 7.317 7.309 7.307 6.853 6.821 6.596 6.565 6.210 6.200 6.189 6.179 6.168 6.157 6.074 6.071 6.058 6.055 6.034 6.030 6.025 5.984 5.980 5.978 5.969 5.967 5.964 5.962 5.781 5.770 5.758 3.759 3.749 3.740

3r

10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0 -0.1
f1 (ppm)

0.96 1.00 1.00 1.07 1.00 1.07 1.17 2.10 1.00 0.96 2.08

158.588 150.551 139.991 129.873 128.401 127.109 125.616 124.841 122.417 104.279 103.745 99.605 45.246 40.474 40.308 40.141 39.973 39.807 39.640 39.473

3r

170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0
f1 (ppm)

3t

3t

3u

3u

3w

3w

3x

3x