Dalton Transactions

ROYAL SOCIETY OF CHEMISTRY

CORRECTION

View Article Online
View Journal | View Issue

Cite this: *Dalton Trans.*, 2026, **55**, 4341

Correction: An N-heterocyclic carbene-based pincer system of palladium and its versatile reactivity under oxidizing conditions

Haobin Li, Bo Zhang, Rui Feng and Shuai Guo*

DOI: 10.1039/d6dt90035f

rsc.li/dalton

Correction for 'An N-heterocyclic carbene-based pincer system of palladium and its versatile reactivity under oxidizing conditions' by Haobin Li *et al.*, *Dalton Trans.*, 2024, **53**, 11470–11480, https://doi.org/10.1039/D4DT00980K.

The authors apologize for the typographical errors in the original article (please note that all supplementary information (SI) materials are correct) and would like to make the following corrections:

(1) Page 11471, left column: "wave at 450 mV" should read "wave at 475 mV".

(2) Page 11472, left column: "$\Delta\delta$ = 11.1 ppm" should read "$\Delta\delta$ = 1.1 ppm".

(3) Page 11473, right column: in "non-isotope-labeled complex **5** (Fig. 3)", the compound number should be **8**.

(4) Page 11477, right column: the description titled "Synthesis of $\mathbf{5^F}$" has been copied incorrectly, and the correct description should be:

"Compound **4** (70 mg, 0.1 mmol), NFSI (32 mg, 0.1 mmol) and CH_2Cl_2 (2 mL) were mixed in a 50 mL round bottom flask. The reaction mixture was stirred at ambient temperature for 5 min. The organic phase was dried under vacuum. The residue was washed with chloroform (2 mL × 3) and then dried under vacuum affording the product as a yellow solid (99 mg, 97%). ^{1}H NMR (500 MHz, CD_3CN): δ (ppm) 9.18 (d, 1H, Ar–H, $^3J_{H,H}$ = 5.0 Hz), 8.74 (d, 1H, Ar–H, $^3J_{H,H}$ = 8.1 Hz), 8.66 (d, 1H, Ar–H, $^3J_{H,H}$ = 7.9 Hz), 8.57–8.54 (m, 1H, Ar–H), 8.41 (t, 1H, Ar–H, $^3J_{H,H}$ = 7.7 Hz), 8.11–8.10 (m, 2H, Ar–H), 7.73 (d, 4H, Ar–H, $^3J_{H,H}$ = 7.2 Hz), 7.65 (t, 1H, Ar–H, $^3J_{H,H}$ = 6.5 Hz), 7.60 (d, 1H, NCH═CHN, $^3J_{H,H}$ = 1.7 Hz), 7.48–7.30 (m, 10H, Ar–H), 7.16 (d, 1H, NCH═CHN, $^3J_{H,H}$ = 1.8 Hz), 7.09 (d, 1H, NCH═CHN, $^3J_{H,H}$ = 1.8 Hz), 5.93 (dd, 1H, NCH_2C_{Ar}, J_1 = 15 Hz, J_2 = 3.8 Hz), 5.34 (dd, 1H, NCH_2C_{Ar}, J_1 = 15 Hz, J_2 = 3.8 Hz), 5.21 (d, 1H, NCH_2C_{Ar}, $^2J_{H,H}$ = 15 Hz), 4.52 (d, 1H, NCH_2C_{Ar}, $^2J_{H,H}$ = 15 Hz), 3.91–3.86 (m, 1H, $NCH_2CH_2CH_2CH_3$), 3.60–3.55 (m, 1H, $NCH_2CH_2CH_2CH_3$), 2.63–2.57 (m, 1H, $NCH_2CH_2CH_2CH_3$), 2.40–2.34 (m, 1H, $NCH_2CH_2CH_2CH_3$), 1.40–1.31 (m, 1H, $CH_2CH_2CH_2CH_3$), 1.18–1,10 (m, 2H, $CH_2CH_2CH_2CH_3$), 0.91–0.48 (m, 11H, $CH_2CH_2CH_2CH_3$). ^{13}C NMR (100 MHz, CD_3CN): δ (ppm) 156.7, 155.0, 154.3, 153.9, 153.7 (d, $C_{carbene}$, $^2J_{C,F}$ = 6.5 Hz), 152.1, 151.4, 147.4, 145.1, 144.5, 138.2, 137.2, 133.6, 131.1, 131.1, 130.8, 130.2, 129.4, 129.0, 128.9, 127.2, 124.7, 124.5, 124.1, 123.5 (Ar–C), 55.7 (NCH_2), 54.9 (d, NCH_2, $^4J_{C,F}$(through-space) = 11 Hz), 49.4 (d, NCH_2, $^4J_{C,F}$(through-space) = 6.6 Hz), 48.7 (NCH_2), 32.9, 32.6 ($NCH_2CH_2CH_2CH_3$), 20.3, 20.0 ($NCH_2CH_2CH_2CH_3$), 13.7, 13.4 (CH_3). ^{19}F NMR (470 MHz, CD_3CN): δ (ppm) −151.52 (BF_4^-), −374.18 (Pd–F). ESI-MS (positive) *m*/*z*: 315 [M-all anions]$^{2+}$.

(5) Page 11478, left column: in the section titled "Synthesis of **7**", "−395.95 (Pd^{IV}–F)" should read "−394.95 (Pd^{IV}–F)", "compound **2** (29 mg, 0.05 mmol)" should read "compound **6** (29 mg, 0.05 mmol)", and "H_2O (10 μL, 0.055)" should read "H_2O (10 μL, 0.55 mmol)".

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

Department of Chemistry, Capital Normal University, Beijing 100048, China. E-mail: guoshuai@cnu.edu.cn